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S. MacLean

1964 - 1968

Catalog:

1964 – 1968: #230 – 859

Trapline catalog:

1964

Stomach contents catalog:

1966 - 1968

S. MacLean

1964 - 1968

Catalog:

1964 - 1968: #230 - 859

Mackay
1964

Specimen Catalogue

10 June

Barrow, Alaska

-MVZ ✓ 230 ad ♀ Erolia fuscicollis - 55.1g. Pol - 17, 8, 4, 3 mm.

Fat heavy. Oviduct distended, no sign of ruptured fol.

15 June

Barrow, Alaska

-MVZ ✓ 231 ad ♂ Calidris melanotos - 84.1g. $t = 13 \times 7$ mm. Fat light

(except throat region - v. heavy)

12 June

Barrow, Alaska

232 ad ♂ Lemmus trimucronatus - 64.8g - 149, 11, 18, -

$t = 10$ mm; epid. t. Fat 1, bites 0, no molt.

17 June

Barrow, Alaska

UCSB 233 ad ♂ Plectrophenax nivalis - 36.5g. $t = 11 \times 9$ mm; fat moderate

UCSB 234 ad ♀ Plectrophenax nivalis - 42.4g. 1 ruptured fol. ova 7, 4 mm.

Fat heavy. Brood patch developing.

16 June

Barrow, Alaska

235 ad ♀ Mustela rixosa - 35.4g. - 159, 17, 19, 6. no embryos,

no scars. UH 1 mm, Fat heavy. Collected by Pete Sovalik -
Barrow Village.

22 June

Barrow, Alaska

-MVZ 236 ad ♀ Dicrostonyx groenlandicus - 32.5g; 109, 9, 14, -

line 5, sta. 4.6. no embryos or scars. UH 1.5 mm

25 June

Barrow, Alaska

-MVZ 237 ad ♂ Larus hyperboreus - 1379g. $t = 20$ mm; Fat heavy

UCSB 238 ad ♂ Sterna paradisaea - 93.8g. $t = 7$ mm. Fat moderate.

-MVZ 239 ad ♂ Canidris canutus - 123.4g. $t = 12$ mm; fat moderate

27 June

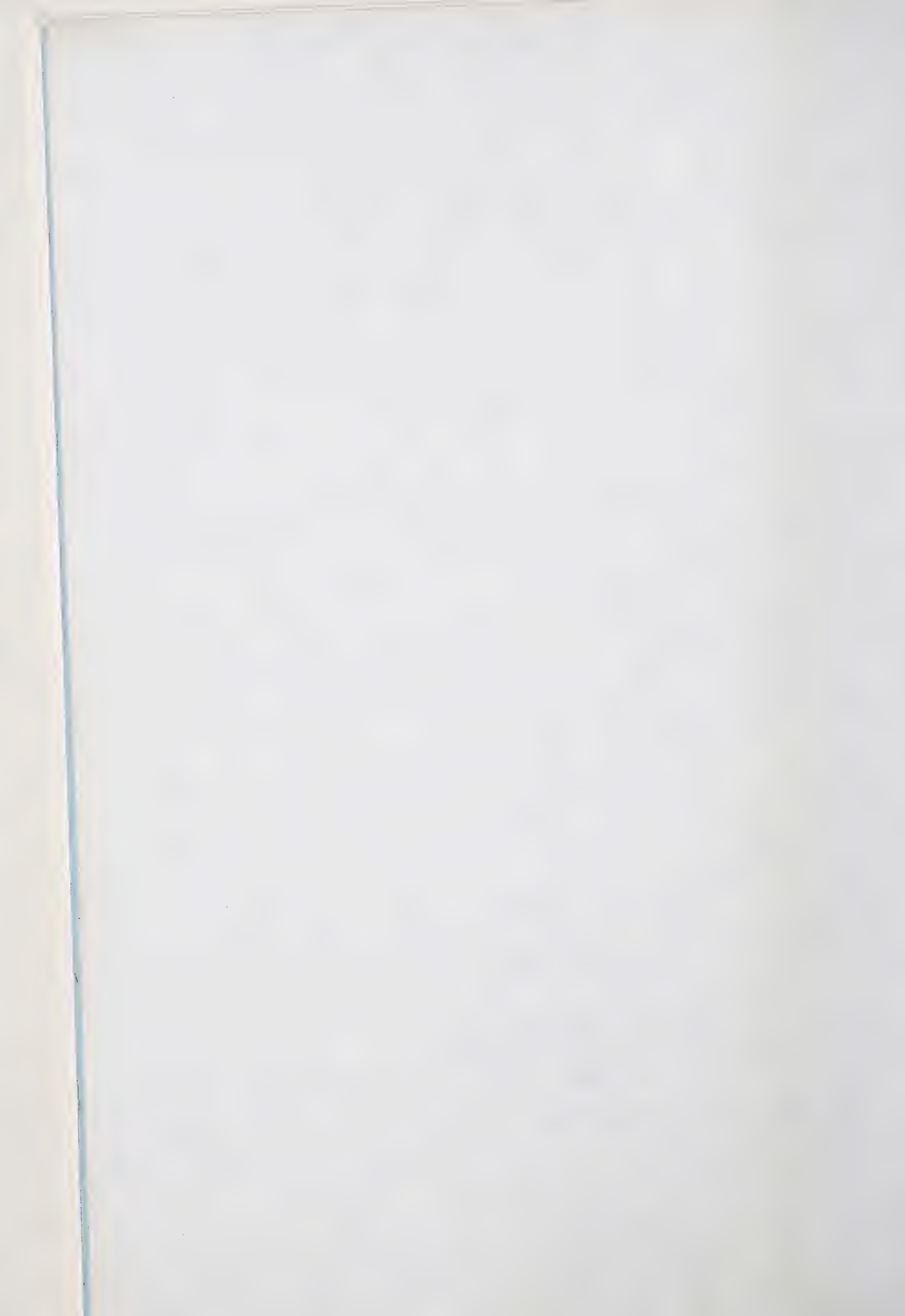
Barrow, Alaska

UCSB 240 ad ♂ Clangula hyemalis - 558.7g. $t = 16 \times 7$ mm, Fat light.

9 June

Inaru River, 25 mi. So. of Barrow, Alaska

-MVZ (1963) 241 ad ♂ Mustela rixosa - 104.6g. - 195, 22, 27, 9. Fat moderate



Maclean
1964

Specimen Catalogue

27 June

Barrow, Alaska

~~MVZ~~ 242 ad. ♂ Colinus alpina - 61.2g. $t = 7 \times 5$, fat heavy x
Brood patch well developed.

243 ad.

Canis lupus - lower jaw.

29 June

Barrow, Alaska

~~MVZ~~ 244 ad ♂ Colinus fascicollis - 40.8g. $t = 9 \times 5$ mm, fat
moderate. Molting on capital feather. No brood patch

UCSB 245 ad ♀ Phalaropus fulicarius - 51.0g. 4 rupt. fol. fat heavy

30 June

Barrow, Alaska

~~MVZ~~ 246 ad ♂ Tyrnites subruficollis - 68.5g. $t = 13 \times 8$ mm; fat heavy.

1 July

Barrow, Alaska

~~MVZ~~ 247 ad ♂ Canis bairdii - 35.4g. $t = 7 \times 4$ mm; fat heavy.
extensive general molt of contour feathers.

2 July

Barrow, Alaska

UCSB 248 ad. ♂ Pluvialis dominica - 160.1g. $t = 9 \times 4$, fat heavy

21 Sept.

Barrow, Alaska

~~MVZ~~ (1963) 249 ad. ♂ Rhodostethia rosea - 169.3g. fat light

fall

Barrow, Alaska

~~MVZ~~ (1963) 250 ad ♀? Pagophila eburnea - 463.0g. fat light. skeleton

3 July

Barrow, Alaska

UCSB 251 ad ♀ Arenaria interpres - 115.3g. 1g. fol. 2mm,
fat heavy. brood patch present.

21 Sept. 252 ad ♀

Dicrostonyx groenlandicus - 61.5g - 128, 11, 18, -.

(1963)

pregnant (?) pelvis open. skeleton

U. Mich 253 ad ? Rhodostethia rosea - 175.9g. skeleton

U. Mich 254 ad. ♂ (?) Rhodostethia rosea - 185.1g. skeleton

Winter

Barrow, Alaska

1963-64 255 ad ♀ Nyctea scandiaca - skull only.

Machlan
1964

Specimen Catalogue

4 July

Barrow, Alaska

- UC, SB 256 ad ♂ Somateria spectabilis - 1471 g. t = 15x7mm, fat light
- MVZ 257 ad ♀ Stercorarius longicaudus - 316.5g. lg. fol 2mm, fat mod.
- MVZ 258 ad ? Hylocichla minima - found dead and desiccated. Injected
259 juv. Calidris alpina - 6.2g. < 1 day old. stomach empty

6 July

Barrow, Alaska

- MVZ 260 juv. Calidris fuscicollis - 4.9g. food in stomach
- MVZ 261 juv. Calidris bairdii - 17.4g. X
- MVZ 262 ad. ♂ Tryngites subruficollis - 66.3g. t = 11x5mm, fat moder. X
- MVZ 263 ad. ♂ Tryngites subruficollis - 65.8g. t = 9x5mm. Skeleton. X
- MVZ 264 ad. ♂ Calidris fuscicollis - 40.7g. t = 8x4, fat mod. beg. molt
- MVZ 265 ad. ♂ Calidris fuscicollis - 42.1g. t = 7x3mm, heavy body molt. X
MVZ 266 ad. ♂ Calidris fuscicollis - 39.2g. t unmeasurable, light molt X
- MVZ 267 ad. ♂ Calidris fuscicollis - 40.1g. t = 8x3mm; heavy body molt. X

5 July

Barrow, Alaska

- UCSB 268 ad. ♂ Gavia arctica - 2175g. t = 18x11mm, fat moderate

Collected by R. Tenaza

6 July

Barrow, Alaska

- UCSB 269 ad. ♀ Phalaropus dominica - 166.9g. lg. fol. 2mm, fat very heavy X

10 July

Barrow, Alaska

- MVZ 270 juv. Calidris pusillus - 16.4g. - X
- MVZ 271 juv. ♂ (?) Calidris melanotos - 22.6g. - X

6 July

Barrow, Alaska

- MVZ 272 ad. ♀ Arenaria interpres - 117.1g. lg. fol. 2mm, fat heavy X
no brood patch.

Spring

Barrow, Alaska

- MVZ 273 ad. Uria lomvia. found dead on beach. Skeleton.

Hackley
1964

Specimen Catalogue

9 July

Barrow, Alaska

-MVZ 274 1st year ♂ Stercorarius parasiticus - 303.6g. dark phase.
t = 8x3mm, fat heavy. Collected by Gary Stevens.

9 July

Wainwright, Alaska

MVZ 275 juv. Canisauris mauri (?) - 14.7g. line III - sec. 0.2. x

8 July

Wainwright, Alaska

MVZ 276 juv. Canisauris mauri (?) - 13.4g. line III ? x

14 July

Barrow, Alaska

-MVZ 277 juv. Canisauris fuscicollis - 25.4g. x

278 juv. ♂ Canisauris melanotos - 23.6g. trapline X - 5.4 x

15 July

Barrow, Alaska

-MVZ 279 ad. ♂ Canisauris pusillus - 23.0g. trapline I - 3.4 x

t = 2mm, fat moderate.

I - 8.8 x

trapline - MVZ

280 ad. ♂ Canisauris fuscicollis - 42.8g. t = 3mm. fat heavy. heavy molt. x

14 July

Barrow, Alaska

VCSB 281 ad. ♂ Stercorarius parasiticus - 462.2g. t = 12x4mm

fat heavy. Stomach contents: 1 old longspur juv.;
1 recent longspur juv.; 1 recent pectoral sandpiper juv.

16 July

Barrow, Alaska

-MVZ 282 juv. Treyngites subruficollis - 8.7g. < 1 day old. x

-MVZ

283 juv. Canisauris melanotos - 13.8g. x

Low 2

-MVZ 284 ad. ♀ Canisauris fuscicollis - 40.3g. lg. fol. 1mm, fat heavy. x

Brood patches present. Molt - capitol tract; light on body.

Sm. Rock

-MVZ 285 ad. ♂ Canisauris fuscicollis - 34.1g. t = 2mm, fat moderate.

moderate body molt.

by Rock

-MVZ 286 ad. ♀ Canisauris fuscicollis - 41.7g. lg. fol. 1mm, fat moderate.

molt light. Old brood patch present. x

Maclean
1964

Specimen Catalogue

16 July

Barrow, Alaska

- by flock - MVZ 287 ad. ♂ Canoris fuscicollis - 41.9 g. $t=3\text{mm}$, fat moderate
molt heavy. ~~tail~~ full plumage nearly complete.
- by flock - MVZ 288 ad. ♂ Canoris fuscicollis - 36.5 g. $t=3\text{mm}$, fat moderate
molt heavy.
- sm. flock DISC MVZ 289 ad. ♀ Canoris fuscicollis - 40.3 g. lg. fd. 1 mm, fat moderate
molt heavy on head, light elsewhere. stomach only.
- MVZ 290 juv. ♂ Canoris alpina - 34.0 g. $t=2\text{mm}$. line I - 9.0
- UCSB 291 ad. ♂ Stercorarius parasiticus - 488.3 g. dark phase.
 $t=9 \times 5\text{mm}$, fat moderate. Stomach - 2 young Reophobopus juvs.

18 July

Barrow, Alaska

- MVZ 292 juv. ♀? Troglodytes subruficollis - 15.6 g.
- UCSB 293 juv. Pluvialis dominica - 26.9 g.
- MVZ 294 juv. Pluvialis dominica - 61.8 g.
- MVZ 295 juv. ♂ Branta nigricans - 87.1 g. $t=4 \times 1\text{mm}$. grass in stomach

19 July

Barrow, Alaska

- MVZ 296 ad. ♀ Canoris fuscicollis - 38.1 g. lg. fd. 1 mm, fat moderate
molt heavy on capitol tract, light elsewhere.
brood patches present - non-vascular.
- MVZ 297 imm. Canoris ^{mailliardi} pusillus - 23.4 g. trapline VII - 9.2 X
- me 298 ad. Stercorarius pomarinus - skull only.

Winter

Barrow, Alaska

- me 1963 299 ad. ♀ Nyctea scandiaca - skull only

23 July

Barrow, Alaska

- MVZ 300 ad. ♂ Canoris alpina - 49.4 g. trapline III-a - 0.2
 $t=2\text{mm}$, fat moderate; brood patches present

21 July

Barrow, Alaska

- 301 juv. Phalaropus fulicarius - 16.0 g. trapline XIII 3.4 X

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1964

Specimen Catalogue

8 July

UCSB

302

juv.

Wainwright, Alaska

Lagopus ^{mutus} ~~lagopus~~ - 17.5g. line III - 6.2 fat moderate

23 July

UCSB

303

ad. ♂

Barrow, Alaska

Stercorarius longicaudus - 248.6g. t=5mm,

fat moderate. Phalarope chick in stomach.

24 July

Barrow, Alaska

-MVZ

304

ad ♀

Polysticiza stelleri - 780.8g. 1g. fol. 3mm, fat light.

brood patch well developed.

27 July

King Salmon, Alaska Peninsula, Alaska

-MVZ

305

Imm. ?

~~Demissa strata~~
Dermisara celata ? 11.8g.

-MVZ

306

Imm. ?

~~Spizella arborea~~
Zonotrichia atricapilla (?) - 17.0g.

-MVZ

307

ad. ♂(?)

Perisoreus canadensis - 73.8g.

-MVZ

308

Imm. ♂

Lagopus lagopus - 290.3g. t=2mm, fat light

Crop - 7.1g - 1/3 grass, 1/3 leaves, 1/3 red berries.

-MVZ

309

ad. ♂

Lagopus lagopus - 559.5g. t=4mm, fat very light

Crop 8.3g. - 60% red berries, 20% grass, 20% leaves

24 July

Barrow, Alaska

UCSB

310

ad. ♀

Gavia adamsii - 11 3/4 lbs. 1g. fol. 41mm, fat mod.

27 July

King Salmon, Alaska Peninsula, Alaska

MVZ

311

Imm. ?

Perisoreus canadensis - 67.2g.

-MVZ

312

Imm. ?

Lagopus lagopus - 252.1g.

Crop - 4.3g. : 40% leaves, 40% grass, 20% berries.

-MVZ

313

ad. ♂

Circus unicolor - 591.0g. : 347, 90, 56, 10.

30 July

Barrow, Alaska

-MVZ

314

ad ♀

Canis lupus fuscicollis - 43.8g. 1g. fol. 41mm, fat heavy.

No brood patches. Molt heavy.

UCSB

315

ad. ♀

Stercorarius pomarinus - 715.8g. 1g. fol. 3mm.

fat heavy. Brood patch present.

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1964

Specimen Catalogue

27 July

King Salmon, Alaska Peninsula, Alaska

~~277~~
mid

316 Imm. Lagopus lagopus - 264.7g. Live mount.

Crop 3.0g. - 60% seed berries, 20% leaves, 20% grass

31 July

Barrow, Alaska

-MVZ

317 Juv. Tyrngites subruficollis - 35.6g.

VCSB

318 Ad. ♀ Somateria spectabilis - 1792.8g. lg. fol. 2mm, fat heavy
no brood patch. molt moderate.

3 August

Barrow, Alaska

-MVZ

319 juv. ♂ Gavia arctica - 650.0g. t=3mm

-MVZ

320 ad. ♀ Arenaria interpres - 119.0g. lg. fol. 21mm, fat very heavy

-MVZ

321 ad. ♀ Squatarola squatarola - 239.4g. lg. fol. 2mm, fat very heavy

-MVZ

322 ad. ♀ Calidris fuscicollis - 36.9g. lg. fol. 1mm, fat moderate
molt moderate. Old brood patches present.

-MVZ

323 imm. ♂ Calidris melanotos - 67.6g. t=3mm

VCSB

324 ad. ♂ Xema sabini - 192.6g. t=3mm, fat moderate

325 ad. ♂ Sterna paradisea - 116.0g. t=3mm, fat moderate

9 August

Barrow, Alaska

-MVZ

326 Imm. Calidris fuscicollis - 31.6g.

3 August

Barrow, Alaska

-MVZ

327 Imm. ? Xema sabini - 208.6g

10 August

Barrow, Alaska

-MVZ

328 Imm ♂ Tyrngites subruficollis - 57.0g. t=2mm, fat mod.

-MVZ

329 Imm ♂ Tyrngites subruficollis - 59.9g. t=2mm, fat mod.

-MVZ

330 Imm. ♀ Tyrngites subruficollis - 42.0g. lg. fol. minute, f. mod.

-MVZ

331 Imm. Calidris pusillus - 23.6g.

-MVZ

332 Imm. Calidris fuscicollis - 40.0g.

-MVZ

333 Imm. Calidris fuscicollis - 31.8g.

-MVZ

334 Ad. ♀ Calidris fuscicollis - 42.1g. heavy molt. fat mod.

Nashea
1964

Specimen Catalogue

10 August

Barrow, Alaska

335 Imm. ♀ Calidris alpina - 49.7g. stomach only. x

31 July

Barrow, Alaska

336 ad. ♀ Calidris alpina 1g. fat. stomach and skull ad. x

337 ad. ♀ Calidris alpina - 1g. fat. 1mm, molt heavy. stomach x

3 August

Barrow, Alaska

338 Imm. ♂ Calidris alpina - 42.2g. t=2mm. stomach. x

-MVZ 339 ad. ♀ Xema sabini - 180.0g. fat light. l.t.d. 1mm

11 August

Barrow, Alaska

WCSB 340 Imm. Phalaropus fulicarius - 44.9g. x

-MVZ 341 Imm. ? Phalaropus fulicarius - 46.2g. x

-MVZ 342 Imm. ♂ Calidris fuscicollis - 37.4g. t=2mm x

-MVZ 343 Imm ♂ Calidris ^{maurii} pusillus - 22.2g. t=2mm. x

344 ad ♀. Calidris melanotos - 71.3g. 1g. fat. <1mm, fat very heavy

345 Imm. Tyrngites subruficollis - 47.3g.

13 August

Barrow, Alaska

346 Imm. Tyrngites subruficollis - 45.6g. Stomach only x

-MVZ 347 Imm. Tyrngites subruficollis - 48.8g. x

? 348 Sa ♂ Clethrionomys rutilus - 28.9g. [INT BARROW]

Kocher
1964

Specimen Catalogue

15 August

Cape Thompson, Alaska

- MVZ 349 ad ♂ Anthus spinoletta - 20.0g. $t=1\text{mm}$, fat mod.
-MVZ 350 ad ♀? Limosa lapponica - 237.2g. fat moderate.

16 August

Cape Thompson, Alaska

- MVZ 351 ad ♀ Oenanthe oenanthe - 23.6g. lg. fol. $<1\text{mm}$, fat moderate
UCSB 352 ad ♂ Oenanthe oenanthe - $t=1\text{mm}$, fat moderate.
-MVZ 353 juv. Uria lomvia - 59.7g.
-MVZ 354 juv. Uria lomvia - 91.3g.
UCSB 355 ad ♀ Rissa tridactyla - 393.5g. lg. fol. 3mm, fat light
-MVZ 356 ad ♂ Corvus corax - 1485g. $t=4\text{mm}$, fat light
-MVZ 357 ad ♂ Calidris ^{mauri} pusillus - 23.5g. $t=1\text{mm}$, fat moderate

17 August

Cape Thompson, Alaska

- MVZ 358 ad ♂ Limnodromus ^{scolopaceus} ~~gambelii~~ - 96.9g. $t=2\text{mm}$, fat light
-MVZ 359 juv. Uria lomvia - 102.7g.
-MVZ 360 juv. Uria lomvia - 77.9g.
UCSB 361 ad ♂ Fratercula corniculata - 706.3g. $t=8 \times 6\text{mm}$, fat moderate
brood patches present.
UCSB 362 ad ♂ Uria aalge - 868.9g. $t=20 \times 10\text{mm}$, fat moderate
brood patch present.
-MVZ 363 ad ♀ Uria aalge - 842.6g. lg. fol. 4mm, fat mod. No b.p.
-MVZ 364 ad ♀ Fratercula corniculata - 590.0g. lg. fol. 2mm, fat mod.
brood patches present.

18 August

Cape Thompson, Alaska

- UCSB 365 ad ♀ Uria lomvia - 1027.1g. lg. fol. 2mm, fat moderate
brood patches present.
-MVZ 366 ad ♂ Uria lomvia - 897.4g. $t=13 \times 5\text{mm}$, fat moderate
brood patch present. (no b.p. - fat light)
-MVZ 367 ad ♀ Fratercula corniculata - 827.0g. lg. fol. 3mm

385 ad. ♀ Anas acuta - 793.0 g. 19.50 l. 1 mm, 1st imm.

Mackay
1964

Specimen Catalogue

7 September

Barrow, Alaska

- 386 ad. ♂ Lemmus trimucronatus - 44.9g. - 120, 10, 17, -.
t = 9mm.; epio. +; fat 1, heavy molt, bites -
- 387 ad. ♂ Lemmus trimucronatus - 41.6g. - 119, 10, 18, -.
t = 9mm.; epio +; fat 1, heavy molt, bites +
- 388 ad. ♀ Lemmus trimucronatus - 55.9g. - 123, 19, 19, -
Pregnant - $2\frac{1}{4}$ res. 24mm, Pelvis open, nip. t.
- 389 ad. ♀ Lemmus trimucronatus - 35.8g. 117, 9, 18, -.
vag. open, u.h. 2mm, pelvis closed, nip.
- 390 ad. ♀ Lemmus trimucronatus - 46.7g. 126, 10, 16, -
Pregnant - $\frac{1}{3}$ - 7mm. + scars. Pel. open, nip +
- 391 ad. ♀ Lemmus trimucronatus 41.2g. - 120, 11, 17, -.
vag. open. u.h. 2mm. pel. closed. nip -.
- 392 ad. ♂ Lemmus trimucronatus - 61.4g. - 137, 11, 20, -
t = 10mm, epio. +
- 393 ad. ♀ Lemmus trimucronatus - 38.1g. - 119, 10, 18, -.
Pregnant - $2\frac{1}{2}$ + 1 res. / 1 + 1 res. 13mm. Pel. closed, nip. -.
- 394 ad. ♂ Lemmus trimucronatus - 40.3g. 123, 9, 18, -.
t = 8mm, epio. t.
- 395 ad. ♂ Lemmus trimucronatus - 38.8g. - 132, 10, 19, 0.
t = 8mm, epio. +
- 396 J-SA ♀ Lemmus trimucronatus - 24.4g. - 112, 9, 17, -.
* vag. closed. u.h. 1mm, pel -, nip -
- 397 SA ♂ Lemmus trimucronatus - 29.4g. - 120, 10, 18, -.
t = 5mm, epio. -.
- 398 Ad ♀ Lemmus trimucronatus - 32.8g. - 122, 9, 12, -.
vag. Open, u.h. 2mm. pel. open, nip. +

Maclean
1964

Specimen Catalogue

5 September

Barrow, Alaska

399 ad. ♀ Leinus trimacronatus - 32g. - 133, 10, 12

vag. plug - u.l. 2mm, milky. scars 3/3? pel. open, rip. +

30 June

Barrow, Alaska

400 ad. ♂ Stercorarius ~~parasticus~~ ~~longicaudus~~ - 458.8g. t=9mm, fat light.

? August

Barrow, Alaska

401 ad. ♀ Stercorarius pomarinus - 568.8g. l.f.d. 2mm, fat light

2 September

Barrow, Alaska

IVZ

402 ad. ? Gavia adamsii - 12 lbs.

Spring

Barrow, Alaska

403 ad. ♂ Marmota caligata - 1380g. - 488, 115, 80, 12.

In ARL animal house. Probably from Peters Lake.

20 September

ARLIS II Ice Station, 86°07'N; 23°34'W.

-MVZ

404 ad. ♂ Pygophila eburnea - 540.5g. t=7mm, fat very heavy

Collected by Ray Ipalook and Henry Genthe.

Feeding in dump - tin foil, egg shells in stomach.

20 August

Barrow, Alaska

405 ad. ♂ Mustella erminea - 305.2g. 352, 83, 45, 15

ARL Animal House.

29 August

Barrow, Alaska

406 ad. ♂ Limnodromus scolopaceus - 101.5g. t=2mm ^x

fat mod. molt heavy. Live (?) mount.

20 August

Cape Thompson, Alaska

407 ad. ♂ Fratercula corniculata (14.0g. t=15x7mm)

fat light. live mount.

408 ad. ♂ Fratercula corniculata - 610.0g. t=10x7mm

fat moderate. Brood patches present.

Maclean
1964

Specimen Catalogue

20 August

Cape Thompson, Alaska

- 409 ad. ♀ Lunda cirrhata - 850.5g. lg. fol. 2mm. fat moderate.
410 ad ♂ Lunda cirrhata - 800.4g. t = 11 x 6 mm. fat moderate
411 ad. ♂ Lunda cirrhata - 814.2g. t = 7 x 4 mm. fat moderate

SEPTEMBER

Barrow, Alaska

- 412 ad ♀ Lampronetta fischeri - 720.1g. fat heavy

JULY

Wainwright, Alaska

- 413 juv. Lampronetta fischeri - 476.1g.

6 July

Barrow, Alaska

- 414 Imm. ♀ Stercorarius longicaudus - 272.0g. fat mod.

6 September

Umiat, Alaska

- (1963) 415 ad. ♀ Corvus corax 1292.3g. fat moderate
stomach - 1 Microtus oeconomus

12 September

Barrow, Alaska

- 416 Sad ♀ Lemmus trimucronatus - 32.1g - 133, 12, 17, -.

Pregnant - 2/1, 10mm. pel closed, nip. -

6 February

Barrow, Alaska

- (1965) 417 ad ♂ Dicrostonyx groenlandicus - 38.8g - 126, 11, 18, -.
Laboratory colony - summer peltage.

3 April

Barrow, Alaska

- (1965) 418 ad ♂ Dicrostonyx groenlandicus - 57.0g; 135, 12, 19, -.
Winter (white) peltage. Right eye injured.

15 August

Cape Thompson, Alaska

- 419 ad ♂ Uria aalge - 930.0g. t = 16 x 6mm, fat mod.

22 March

Umiat, Alaska

- (1965) 420 ad ♂ Lagopus lagopus - 624.9g. fat moderate.

23 May

Barrow, Alaska

- (1965) 421 ad ♂ Calcarius lapponicus - 20.1g

Maclean
1965

Specimen Catalogue

14

23 May

Barrow, Alaska

422 ad ♂ Mustella rixosa - 63.4g.; 190, 18, 25, 7.

April

Anaktuvuk Pass, Alaska

423 ad ♂ Lagopus lagopus - 572.0g. head + neck molt heavy.

424 ad ♂ Lagopus lagopus - 621.4g. t = 5mm

425 ad ♂ Lagopus lagopus - 615.9g.

11 July

Barrow, Alaska

426 ad. ♂ Calidris melanotos - 83.8g. t = 12x7mm, fat light. ^{feeding obs. #II}

13 July

Barrow, Alaska

427 ad. ♂ Calidris alpina - 56.5g. t = 6x4mm, fat moderate
b.p. present. heavy molt.

11 June

Barrow, Alaska

428 ad. ♀ Calidris alpina - 63.2g. L.f. = 2mm, fat light,
b.p. present - heavy wing molt, light body molt.

13 July

Barrow, Alaska

429 ad ♂ Phalaropus fulicarius - 52.3g. t = 4x2mm, fat mod.

430 ad ♂ Calidris melanotos - 99.2g. t = 3x2, fat mod.

(feeding obs. II.)

431 ad ♂ Calidris melanotos - 107.4g. t = 9x4mm, fat heavy
(feeding obs. I.)

11 July

Barrow, Alaska

432 ad ♀ Calidris melanotos - 73.0g. fat moderate, b.p. present
egg in oviduct; ova 18, 9mm. 2 rupt. foll. feeding obs #2.

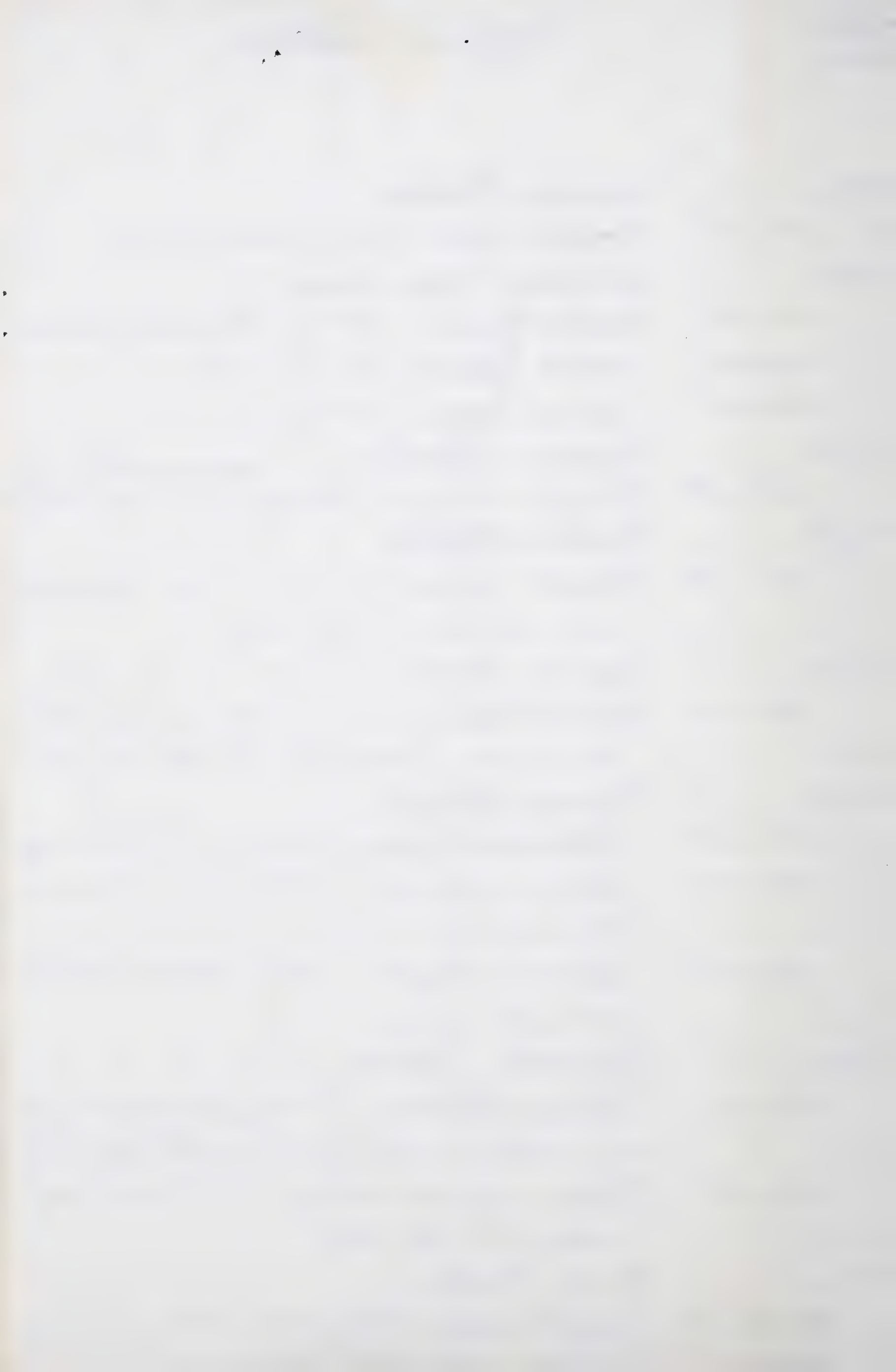
433 ad ♂ Calidris melanotos - 86.0g. t = 11x7mm, fat mod.
feeding obs. #1. (I)!

29 June

Barrow, Alaska

434 s-ad ♂ Mustella rixosa - 31.8g. 148, 9, 17, 8.

435 s-ad Mustella rixosa 41.7g. 165, 14, 20, 8



Maclean
1965

Specimen Catalogue

15

3 June

Nome, Alaska (Pilgrim Hot Springs, Seward Pen)

436 ad ♂

Aythya marila - 937.5g. t = 29x13mm, fat light.

20 July

Barrow, Alaska

437 ad. ♀

Canoris alpina - 51.6g. lg. fol. <1mm, fat light, molt moderate, brood patches regressed.

438 ad ♂

Phalaropus fulicarius - 50.5g. t = 7x4mm, fat heavy, no molt. Brood patch well developed.

439 ad ♂

Phalaropus fulicarius - 52.4g. t = 6x3mm, fat moderate. Brood patches well developed.

25 July

Barrow, Alaska

440 ad. ♀

Canoris melanotos - 79.0g. lg. fol. = 1mm, fat heavy. #8. b.p. regressing.

441 ad ♂

Canoris melanotos - 106.7g. t = 5mm, fat heavy. #3.

442 ad ♀

Canoris melanotos - 65.6g. lg. fol. = 2mm, fat moderate. b.p. well developed #3 (w/141).

443 ad ♂

Canoris melanotos - 100.0g. t = 3mm, fat heavy. #5.

444 ad ♀

Canoris melanotos - 53.5g. lg. fol. = 2mm, fat moderate. b.p. well developed. #6

445 ad ♂

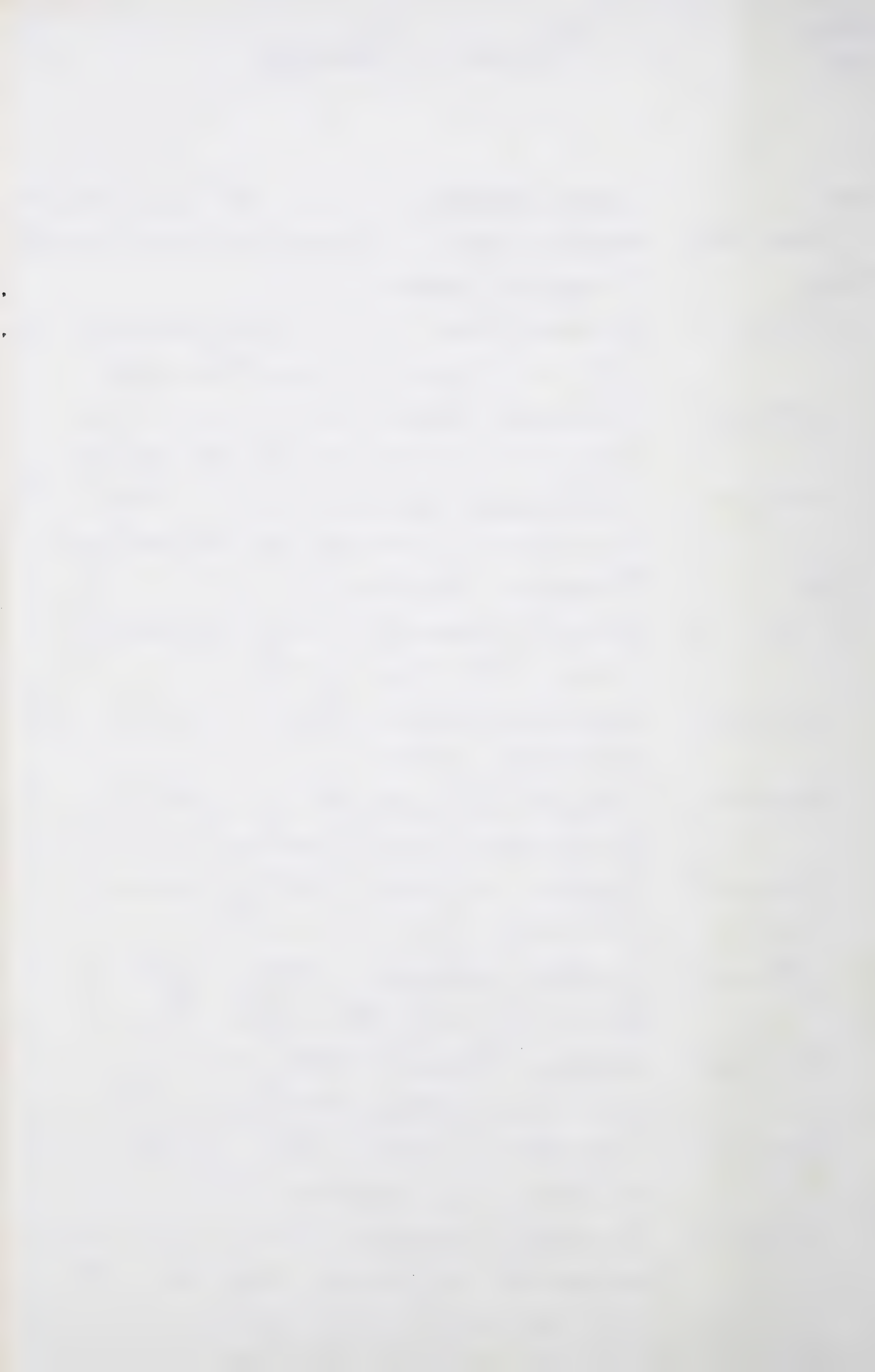
Canoris alpina - 52.1g. t = 2mm, fat light. b.p. regressing. Heavy molt. #4

446 ad ♀

Pluvialis dominica - 150.0g. lg. fol. = 1mm, fat heavy. b.p. regressed. #1.

447 ad ♀

Pluvialis dominica - 157.0g. lg. fol. = 1mm, fat moderate. b.p. beginning regression. #7



Moehren
1965

Specimen Catalogue

28 July

Barrow, Alaska

448 ad. ♂ Pluvialis dominica - 187.0g. $t = 4 \times 1.5$ mm.

Fat heavy, no b.p.

449 ad ♀ Pluvialis dominica - 202.8g. lg. fol. 1mm.

Fat very heavy, no b.p.

450 ad. ♀ Pluvialis dominica - 181.0g. lg. fol. 1mm.

Fat moderate. b.p. in early regression.

30 July

Barrow, Alaska

451 juv. ♂ Calidris alpina - 36.1g. $t = 2$ mm.

Fat mod. to heavy! trapline XIII - 7.8

31 July

Barrow, Alaska

452 juv. ♂ Calidris alpina - 32.1g. $t = 2$ mm

Fat light. trapline XIV - 9.6

29 July

Barrow, Alaska

453 ad ♂ Phalaropus fulicarius - 53.2g. $t = 4$ mm.

Fat moderate no b.p.

454 ad ♂ Phalaropus fulicarius - 47.4g. $t = 4$ mm.

Fat mod-heavy. b.p. regressed.

6 August

Barrow, Alaska

455 juv. Calidris alpina - 12.2g. no fat

10 August

Barrow, Alaska

456 imm ♂ Calidris pusillus - 20.9g. $t = 1$ mm, fat light

457 imm ? Calidris pusillus - 21.3g. fat light.

15 August

Barrow, Alaska

458 juv. ♂ Calidris alpina - 25.9g. $t = 2$ mm, fat light

14 August

Barrow, Alaska

459 Imm ♂ Pluvialis dominica - 191.3g. $t = 2$ mm fat heavy
skull ossified.

Maclean
1965

Specimen Catalogue

17

15 August

Barrow, Alaska

-MVZ 460 Imm ♂ Calidris ^{melanotos} acuminata - 73.8g. $t=3\text{mm}$, fat mod, skull unossified.

-MVZ 461 Imm ♀ Calidris ^{melanotos} acuminata - 52.5g. Lg. fol. $<1\text{mm}$, fat light. skull unossified.

17 August

Barrow, Alaska

462 Imm. ♀ Calidris alpina - 49.3g. lg. fol. $<1\text{mm}$, fat light.

18 August

Barrow, Alaska

463 Imm ♂ Limnodromus scolopaceus - 105.3g. $t=3\text{mm}$, fat light; skull unossified.

464 Imm ♂ Limnodromus scolopaceus - 105.5g. $t=3\text{mm}$, fat moderate; skull unossified.

20 August

Barrow, Alaska

465 Imm ♀ Pelecanus dominica - 199.5g. lg. fol. $<1\text{mm}$, fat heavy. skull unossified.

466 Imm ? Phalaropus fulicarius - 40.0g. fat light; skull anast.

467 Imm ♀ Calidris melanotos - 63.8g. lg. fol. $<1\text{mm}$, fat very heavy; skull unossified.

468 Imm ♀ Limnodromus scolopaceus - 109.6g \pm lg. fol. $<1\text{mm}$, fat light, skull unossified.

469 Imm ♂ Limnodromus scolopaceus - 94.8g. $t=2\text{mm}$, fat light, skull unossified.

470 Imm ♂ Limnodromus scolopaceus - 93.7g. $t=3\text{mm}$, fat light, skull unossified.

471 Imm ♂ Limnodromus scolopaceus - 96.6g. $t=3\text{mm}$, fat light, skull unossified.

Maclean
1965

Specimen Catalogue

22 August

Barrow, Alaska

- 472 Imm ♂ Limnodromus scolopaceus - 104.6 g. $t = 2\text{mm}$,
fat light; skull unossified. Feeding obs. #2.
- 473 Imm ♀ Limnodromus scolopaceus - 122.9 g. Lg. fol. $< 1\text{mm}$,
fat moderate; skull unossified (but almost). #2.
- 474 Imm ♂ Limnodromus scolopaceus - 73.8 g. $t = 2\text{mm}$,
no fat; skull unossified. Feeding obs. #2.
- 475 Imm? Phalaropus fulicarius - 41.0 g. fat light
- 476 Imm ♂ Limnodromus scolopaceus - 93.9 g. $t = 2\text{mm}$,
fat light, skull unossified. Feeding obs. #1.
- 477 Imm ♀ Limnodromus scolopaceus - 103.4 g. Lg. fol. $< 1\text{mm}$,
fat light, skull unossified. Feeding obs. #1.
- 478 Imm ♂ Limnodromus scolopaceus - 97.5 g. $t = 3\text{mm}$,
fat light, skull unossified. Feeding obs. #3.

12 November

California, Alameda Co, 0.5 miles S. of Point Isabel

- 479 ad ♂ Calidris alpina - 64.4 g. $t = 2 \times 1\text{mm}$, fat moderate

Nachrean
1966

Specimen Catalog

1

May, 1966

POW- 1, Pitt Point, Alaska

- ✓ 480 ♀ ad. Turdus migratorius - 40.0g. lg. fol. 41mm; no fat.
✓ 481 ♀ ad. Vermivora celata - 7.4g. lg. fol. 41mm; no fat

4 June

Barrow, Alaska

- ✓ 482 ♂ ad. Calidris alpina - 56.0g. t=11x6mm; fat mod. X

6 June

Barrow, Alaska

- 483 1st year ♀ Calidris alpina - 71.1g. lg. fol. 6mm, fat moderate. wing coverts lighter colored. Black patch incomplete. X

- 484 ad. ♀ Calidris alpina - 63.9g. lg. fol. 9mm, oviduct distended; fat moderate. X

- 485 ad. ♂ Calidris alpina - 53.9g. t=10x6mm, fat mod. X

- 486 ad. ♂ Calidris alpina - 57.7g. t=10x5mm, fat heavy

7 June

Barrow, Alaska

- ✓ 487 ad. ♂ Calidris pusillus - 26.8g. t=8x5mm, fat mod. X

9 June

Barrow, Alaska

- 488 ad. ♂ Calidris alpina - 56.2g. t=10x5mm, fat mod.

- 489 ad ♀ Calidris alpina - 62.1g. lg. fol. 5mm, fat mod, oviduct slightly distended.

- ✓ 490 ad. ♀ Calidris alpina - 62.4g. lg. fol. 9mm, fat heavy

- 491 ad. ♀ Calidris alpina - 60.4g. lg. fol. 4mm, fat mod
Feeding obs. 027.

11 June

Barrow, Alaska

- ✓ 492 ad ♀ Arenaria interpres - 132.9g. ova 21, 14mm; 2 ruptured follicles; fat moderate; no brood patch. X

13 June

Barrow, Alaska

- 493 ad. ♂ Calidris bairdii - 39.5g. t=9x5mm, fat light mod. X

Specimen to Earlham College, SN 062



Machean
1966

Specimen Catalogue

2.

13 June

Barrow, Alaska

- 494 ad. ♂ Calidris bairdii - 40.7g. t=9x4mm, fat heavy
495 ad ♂ Calidris bairdii - 40.0g. t=10x4mm, fat mod.

SN 063

16 June

Meade River Coal Mine, Alaska

- 496 ad ♀ Phalaropus fulicarius - 55.9g. 2 ruptured
follicles, shelled egg in oviduct (time 2:00 AST),
fat. fol. 15^{10mm}mm. Fat light.
- 497 ad ♂ Phalaropus fulicarius - 48.9g, t=13x6mm, fat ^{brood patches present.} heavy
- 498 ad ♀ Phalaropus fulicarius - 61.6g. 3 ruptured
follicles, shelled egg in oviduct, largest fol.
9mm. fat moderate.
- ✓ 499 ad ♀ Phalaropus fulicarius - 67.3g. 3 ruptured
follicles, shelled egg in oviduct, largest fol.
17mm. fat moderate.
- 500 ad ♂ Calidris pusillus - 24.8g. t=8x4mm, fat
moderate. Brood patches present.
- ✓ 501 ad. ♂ Calidris pusillus - 26.0g. t=7x4mm, fat
moderate. Brood patches present.

17 June

Meade River Coal Mine, Alaska

- 502 ad. ♂ Calidris pusillus - 24.9g. left t. damaged;
right t=6x4mm, fat moderate, brood patch present
- 503 ad ♂ Calidris pusillus - 23.4g. t=8x4mm, fat
light. brood patch incomplete.
- 504 ad ♂ Calidris pusillus - 23.8g. t=8x5mm, fat
moderate. Brood patches well developed.
- 505 ad. ♂ Calidris pusillus - 26.4g. t=7x4mm, fat
moderate +, brood patches present.



achran
1966

Specimen Catalog

3

506 ad ♂ Calidris pusillus - 20.6 g. $t = 8 \times 5$ mm, far light.
brood patches present.

507 ad ♀ Phalaropus fulicarius - 39.7 g. ovary regressed -
lg. fol. 3 mm, at least 2 rupt. foll., oviover
distended, far moderate.

508 ad ♂ Phalaropus fulicarius - 46.0 g. brood patch
incomplete (mate of above!). t damaged,
but appeared to be small. far heavy.

18 June

Mesoe River Coal Mine, Alaska

509 ad ♂ Calidris pusillus - 21.8 g. $t = 7 \times 4$ mm, far
moderate; brood patches partially developed.

510 ad ♀ Phalaropus fulicarius - 50.5 g. 3 rupt. foll.,
egg in oviover (shell just beginning - 2130 hrs),
largest fol. 9 mm. far light.

511 ad ♂ Phalaropus fulicarius - 50.3 g. $t = 15 \times 7$ mm,
far moderate +. Brood patches nearly complete.

22 June

Barrow, Alaska

512 emb. Calidris alpina - clutch of eggs
egg 11.9 g - embryo 17 mm; egg 10.1 g - emb 18 mm;
egg 11.7 g - emb 17 mm; egg 11.1 g - emb 20 mm.
Embryo weights 1.1 - 1.2 g.

25 June

Barrow, Alaska

✓ 513 ad ♂ Calcaricus lapponicus - 27.8 g. $t = 10 \times 7$ mm, far light

29 June

Barrow, Alaska

514 ad ♂ Calidris pusillus - 25.2 g. $t = 6 \times 4$ mm, far mod.
b.p. present. head saved in formalin.

Maclean
1966

Specimen Catalogue

4

1 July

Barrow, Alaska

- 515 ad ♀ Phalaropus fulicarius - 61.0g. ^{SN 172} 4 rupt. foll;
lar. fol. 8mm, yolk. far lighter. Head in formalin.
- 516 ad ♂ Calidris melanotos - 98.0g. t = 9x6;
far heavy; head in formalin. SN 173
- 517 ad ♂ Calidris melanotos - 96.7g. t = 10x? - damaged.
far moderate. head in formalin. SN 163.
- 518 ad ♂ Phalaropus fulicarius - 55.8g. t = 9x5, far heavy.
head in formalin. SN 167. b.p. present.

4 July

Barrow, Alaska

- 519 ad ♂ Calidris melanotos - 89.0g. t = 7x3mm,
far moderate. gular far regressed. Head in Bouin's.
- 520 ad ♂ Calidris melanotos - 93.3g. t = 10x7mm,
far moderate. Head in Bouin's.

5 July

Barrow, Alaska

- 521 ad ♀ Calidris melanotos - 66.7g. lg. fol. 2mm,
far moderate. b.p. re feathering. Head in Bouin's

4 July

Barrow, Alaska

- 522 ad ♂ Calidris melanotos - 100.0g. t = 13x8mm,
far moderate. Head in Bouin's. SN 180
- 523 ad ♂ Calidris melanotos - 94.7g. t = 11x6mm,
far moderate. Head in formalin.

8 July

Barrow, Alaska

- 524 ad ♀ Calidris pusillus - 23.9g. lg. fol. 1mm,
far moderate+. b.p. re feathering. head in Bouin's
- 525 ad ♂ Calidris pusillus - 24.0g. t = 3x1mm, far
moderate-. b.p. present, re feathering (?). head in Bouin's

Maclean
1966

Specimen Catalog

5

526 ad. ♂ Calidris pusillus - 25.1g. $t=3 \times 1$ mm, fat moderate. b.p. present. Head in formalin.

527 ad. ♂ Calidris pusillus - 23.3g. $t=4 \times 2$ mm, fat moderate. b.p. incomplete, refeathering. Head in formalin.

✓ 528 ad. ♂ Calidris fuscicollis - 42.7g. $t=8 \times 5$ mm, fat light. molt on capital tract. SM 152

11 July

Barrow, Alaska

529 ad. ♂ Calidris alpina - 54.4g. $t=5 \times 2$ mm, fat mod. Head in Borin's. b.p. well developed.

530 ad. ♂ Calidris alpina - 48.0g. $t=4 \times 2$ mm, fat light. no b.p. Head in formalin. trapline IX - 3.0.

12 July

Barrow, Alaska

✓ 531 juv. ♂ Calidris alpina - 30.4g. trapline IX - 4.2. $t=2 \times 1$ mm.

13 July

Barrow, Alaska

532 juv. ♀? Calidris alpina - 30.4g. trapline IX - 5.0.

533 ad. ♀ Calidris pusillus - 29.5g. lg. fol. <1 mm, fat. mod. b.p. refeathering. Head in Borin's. trapline IX - 6.4

12 July

Barrow, Alaska

✓ 534 juv. ? Calidris alba - 7.3g. <1 day old.

13 July

Barrow, Alaska

535 ad. ♂ Calidris bairdii - 39.8g. $t=2 \times 1$ mm, fat mod. b.p. present. Head in Borin's. trapline IX - 9.6.

536 ad. ♂ Calidris pusillus - 22.3g. $t=3 \times 2$ mm, fat light. b.p. present. Head in formalin. Trapline IX - 9.0

Maclean
1966

Specimen Catalogue

6

537 ad. ♂ Calidris pusillus - 21.2g. $t=3 \times 1$ mm, fat light,
b.p. present; Head in Bouin's. Trapline IX-9.4

✓N 538 juv. ♀? Arenaria interpres - 10.6g. trapline IX-8.2

16 July

Barrow, Alaska

✓N 539 juv. ♀ Calidris alpina - 41.4g. trapline VIII-8.0.

18 July

Barrow, Alaska

540 ad ♀ Calidris bairdii - 39.3 g. Incubating
at nest # 13. lg. fol. 1mm, fat heavy!

b.p. present. Head in Bouin's.

541 ad ♂ Calidris bairdii - 42.4g. Incubating
at nest #20. $t=2 \times 1$ mm, fat heavy,
b.p. present. Head in formalin.

542 ad. ♂ Calidris bairdii - 41.1g. Incubating
at nest # 31. $t=3 \times 1$ mm, fat moderate.
b.p. present. Head in formalin.

9 July 543 ad. ♂ Calidris bairdii - 45.7g. Incubating
nest #13 - DDD AST. $t=3 \times 1$; fat heavy.
Head in Bouin's. b.p. present.

10 July

Birnik, Barrow, Alaska

✓N 544 ad ♂ Lamprolaima fischeri - 1400g.
 $t=13 \times 6$ mm, fat moderate

19 July

Barrow, Alaska

545 ad. ♀ Stercorarius longicaudus - 338.0g.
lg. fol. <1mm; fat heavy. tipulids in esophagus.

✓N 546 juv. ♀? Calidris bairdii - 12.2g.

20 July

Barrow, Alaska

547 ad ♂ Calidris alpina - 38.6g. trapline 3B-3.4.
 $t=3 \times 1$ mm, no fat. b.p. +. Head in Bouin's

Maclean
1966

Specimen Catalogue

7

19 July

Barrow, Alaska

- ✓H 548 ad. ♂ Calidris bairdii - 36.6g. $t=3 \times 1$ mm, fat light, b.p.+ (obs #2). heavy molt.
- 549 ad. ♀ Calidris bairdii - 37.4g. lg. fol. 1mm, fat moderate, b.p.+ (obs. #1) heavy molt. head in formalin.

27 July

Barrow, Alaska

- 550 ad. ♂ Calidris alpina - 51.1g. $t=3 \times 1$ mm, fat light. b.p.-. Heavy molt. Head in formalin.
- 551 ad. ♂ Calidris alpina - 58.5g. $t=3 \times 1$ mm, fat heavy. b.p.+ moderate molt. Head in Bouin's.

29 July

Barrow, Alaska

- 552 ad. ♀ Calidris alpina - 58.5g. lg. fol. 1mm, fat light. b.p.+ head in Bouin's.

3 August

Barrow, Alaska

- 553 imm. ♀ Calidris melanotos - 42.9g. fat v. light. Found on tundra w/ broken wing. Head in Bouin's.

6 August

Barrow, Alaska

- 554 imm. ♀ Calidris melanotos - 63.8g. fat mod. t. head in Bouin's.
- 555 imm. ♀ Calidris melanotos - 57.7g. fat moderate whole body less alimentary tract farther above.
- 556 imm. ♂ Calidris melanotos - 78.5g. $t=2 \times 1$, fat mod. t. whole body, as above.

10 August

Barrow, Alaska

- 557 imm. ♀ Calidris melanotos - 71.8g. fat heavy whole body, as above.

Maclean
1966

Specimen Catalogue

8

1 August

Barrow, Alaska

✓ 558 imm ♂ Calidris melanotos - 105.5g. $t=1.5 \times 1$, fat heavy

3 August

Barrow, Alaska

559 imm ♂ Calidris alpina - 52.3g. $t=2 \times 1$, fat light
whole body for fat analysis.

560 imm ♂ Calidris alpina - 52.4g. $t=1.5 \times 1$, fat light
whole body for fat analysis.

561 imm ♀ Calidris pusilla - 23.3g. fat moderate
Hed in Bouin's.

562 ad ♂ Calidris alpina - 49.5g. $t=2 \times 1$, fat v. light
Hed in Bouin's.

12 August

Barrow, Alaska

563 imm ♂ Calidris melanotos - 62.8g. $t=2 \times 1$, fat
light. Hed in Bouin's.

15 August

Barrow, Alaska

✓ 564 imm ♂ Tryngites subruficollis - 60.1g. $t=2 \times 1$,
fat moderate. X

20 August

Barrow, Alaska

565 imm ♂ Limnodromas scolopaceus - 104.5g. $T=3 \times 1$
bill in formalin X

566 imm ♂ Limnodromas scolopaceus - 100.8g. $t=2 \times 1$
bill in Bouin's. X

23 August

Barrow, Alaska

567 ad ♀ Calidris alpina - 54.5g. fat moderate
hed in Bouin's. Trapline III-B: 1.0.

568 ad ♀ Calidris alpina - 61.0g. fat mod.

Hed in Bouin's. trapline III B - 7.8.

Hachem
1966

Specimen Catalog

9.

569 ad ♂ Calidris alpina - 67.0g. t=2x1mm, far heavy
whole body for fat extraction

570 imm ♀ Calidris pusillus - 21.8g. (starved 1 day)
for moderate. Hesse in Bouin's.

18 August

Barrow, Alaska

571 imm ♀ Pluvialis dominica - 153.3g. far heavy
whole body for fat determination

Maclea
1967

Specimen catalog

1.

8 June

Barrow, Alaska

701 ♂ ad.

Calidris melanotos

112.5

cul. ln: 28.4; cul. ht: ^{5.6}~~5.5~~; cul. wid: 3.9

t = 15 mm, fat moderate

702 ♀ ad.

C. melanotos

74.9

27.6 / 5.0 / 3.8 ova to 5 mm, fat ^{heavy} moderate

703 ♀ ad.

C. melanotos

71.6

26.6 / 26.4 / 4.7 / 3.6 ova to 4 mm, fat ^{heavy} moderate

704 ♂ ad.

C. alba

t = 13 mm; fat heavy.

65.9

24.5 / 4.6 / 3.5

10 June

Barrow, Alaska

705 ♀ ad

C. alpinus

no b.p.

64.8

37.5 / 6.3 / ^{5.3}~~5.7~~ ova to 10 mm, fat light.

706 ♂ ad

C. alpinus

51.5

34.8 / 5.7 / ^{4.3}~~3.8~~ t = 8 mm, fat v. light

707 ♂ ad

Phalaropus fulicarius

50.2

23.0 / 4.2 / 5.3 t = 13 mm, fat light

708 ♂ ad

Phalaropus fulicarius

49.6

23.4 / 4.4 / 4.7 t = 13 mm, fat light

709 ♂ ad

Phalaropus fulicarius

49.1

23.9 / 4.1 / 4.4 t = 14 mm, fat light

710 ♀ ad

Phalaropus fulicarius

63.8

24.5 / 4.8 / 4.6 ova to 10 mm, fat light

711 ♀ ad

Phalaropus fulicarius - fat light.

63.0

X / 4.8 / 4.9. 4 rupt. follicles - see spp. account

712 ♂ ad

Phalaropus fulicarius - found dead

X

21.3 / 4.5 / 4.4 t = 13 mm, fat light.

Macler
1967

Specimen Catalog

2.

12 June

Barrow, Alaska

- 713 ♀ ad Calidris alpina b.p. present. 64.3g.
34.7/5.8/4.5 ova to 8mm; at least 3 e.l.; light fat
- 714 ♂ ad C. alpina b.p. present. 56.9
34.4/5.8/5.4 t = 10mm; moderate fat
- 715 ♀ ad. Phalaropus fulicarius 58.1^x
23.4/4.4/4.7 ova to 7mm, oviduct almost fully
developed. light fat.

18 June

Barrow, Alaska

- 716 ♀ ad. C. pusillus 29.0
18.5/4.5/3.5. ova to 9mm, light fat
- 717 ♂ ad F. lucialis communis 153.4^x
21.9/5.9/4.2 t = 15mm, fat light.
cestode infection.
- 718 ♀ ad C. melanotos 73.0
26.4/5.8/4.0 ova to 5mm, fat heavy.
- 719 ♂ ad. C. melanotos 104.5^x
t = 14mm, fat light.
28.0/5.4/4.0
- 720 ♂ ad. C. melanotos 114.0
29.0/5.6/4.5. t = 12mm, fat mod.
- 721 ♂ ad. C. melanotos 125.8
29.7/6.0/5.7. t = 13mm, fat heavy.

17 June

Barrow, Alaska

- 722 ♂ ad. C. melanotos 108.3^x
29.5/5.7/ — . t = 13mm, fat light.
- 723 ♀ ad Phalaropus fulicarius. fat light 68.7^x
24.3/4.4/4.8. egg in oviduct; ova to 15mm + 2 rupt.

Maclean
1967

Specimen catalog

3.

20 June

Barrow, Alaska

724 ♂ ad. Calcareous lapponicus 28.8

t = 8 mm, fat light. Live mount for field use.

725 ♀ ad. Calidris melanotos. fat moderate. 64.2

ova to 4 mm, b.p. thickening + vascularization; oviovar rupt.

26.2 / 4.5 / 4.1

21 June

Barrow, Alaska

726 ♂ ad. C. melanotos 92.7

30.5 / 5.7 / 4.4 . t = 13 mm, fat moderate

727 ♂ ad. C. melanotos 90.0

28.1 / 5.7 / 4.5 . t = 11 mm, fat light

728 ♂ ad. C. melanotos 105.5

30.0 / 6.0 / 4.7 t = 12 mm, fat light.

729 ♂ ad. C. melanotos 85.7

29.8 / 5.4 / 4.0

730 ♂ ad. C. melanotos 89.2

30.1 / 5.5 / 4.5

731 ♂ ad. C. alpina - trapline II - 8.8 40.5

34.7 / 5.8 / 4.7 . t = 16 mm, fat, mod. b.p. present

732 ♂ ad. Phalaropus fulicarius - trapline II - 8.0 55.8

21.7 / 4.2 / 4.4

24 June

Barrow, Alaska

733 ♀ ad. Pluvialis dominica 175.0

22.0 / 5.2 / 4.7. Ova to 12 mm + 4 rupt. foll.

Oviovul enlarged. b.p. present.

734 ♂ ad. Calidris melanotos 92.7

30.5 / 6.0 / 4.8 . t = 11 mm, fat moderate

Maclean
1967

Specimen Catalog

4.

4 June] 735 ♂ ad

Calidris melanotos

98.9

28.4/5.6/4.8 . t=10 mm; fat heavy

736 ♂ ad.

C. melanotos

108.7

30.0/5.6/4.4 t=13 mm; fat moderate

737 ♂ ad

C. melanotos

93.0

28.6/5.6/4.4

5 June

Barrow, Alaska

738 ♂ ad.

C. melanotos

99.5

30.0/5.5/4.6 t=12 mm; fat heavy.

739 ♂ ad.

C. melanotos

103.1

28.0 - malform. t=13 mm, fat heavy.

740 ♀ ad

Phalaropus fulicarius, fat light. 58.2

22.4/4.2/- . Ova to 3 mm, oviduct enlarged

741 ♀ ad.

Ph. fulicarius

67.7

23.9/4.7/4.4 . Egg in oviduct, 4 rays,
follicles. fat light

26 June

Barrow, Alaska

742 ♀ ad.

Calidris bairdii - I - 8.2 .

44.4

fat mod.
24.0/3.7/3.2 . Egg to 4 mm; inc. patches

28 June

Barrow, Alaska

743 ♀ ad.

Pluvialis dominica

182.6

23.2/6.0/4.9. Ova 15, 9, ... b.p. present, but
not vascularized. fat moderate.

744 ♀ ad.

Pluvialis dominica

167.2

21.4/5.7/4.7. Ova to 4 mm; b.p. -; fat mod

745 ♂ ad.

Calidris pusillus

27.4

17.6/4.3/3.3 . t=7 mm, fat mod. t.



Machin
1967

Specimen catalog

5.

30 June

Barrow, Alaska

746 ♀ ad.

Pluvialis dominica

167.4

20.9/6.0/6.1 (as prox. end of tars.)

ova to 3mm, fat moderate

747 ♀ ad.

Pl. dominica

119.6

21.9/7.0/6.1 . Ova to 6mm + coll. foll.

b.p. present. light fat.

748 ♂ ad.

Calidris melanotos

30.0/-/-

749 ♀ ad.

C. melanotos

25.0/5.4/4.0

6 July

Barrow, Alaska

750 ♀ ad.

Pluvialis dominica

176.2

foll. to 2mm, fat heavy, molt heavy

14 July

Barrow, Alaska

751 ♀ ad.

Pluvialis dominica

202.4

23.1/6.1/5.8 . fat very heavy;

ova to 1mm; heavy body molt. no b.p.

Stomach contents = 2.1 g.

Saved for fat extraction.

752 ♂ ad.

Pluvialis dominica

176.4

23.0/6.6/6.4 . t = 7x2mm, fat moderate,

no b.p.; heavy molt

stomach contents = 2.6 g.

Saved for fat extraction.

753 ♀ ad

Pluvialis dominica

22.8/6.7/5.4

185.3

follicles to 1.5mm, fat moderate, no b.p.

heavy molt. Stomach = 2.2g. for fat ext.

Nachson
1967

Specimen Catalog

6.

[14 July]

754 ♀ ad

Calidris alpina

57.0

38.0/6.5/5.0. lg. fol. < 1mm, far light.
old b.p. present. Beginning body molt

17 July

755 ♂ ad

Calidris pusillus

25.9

17.9/4.3/3.8. (FAP skin)

756 ♂ ad

Calidris fuscicollis

48.6

23.1/4.8/3.8 (FAP skin)

18 July

757 ♀ ad.

Pluvialis dominica

170.6

22.0/6.1/5.1. lg. fol. < 1mm, far mod.
b.p. refeathering - heavy molt.

758 ♀ ad.

Calidris alpina

58.8

33.1/5.3/- . 0.4 g. stomach contents.
lg. fol. = 1mm, far light. Molt beginning -
b.p. refeathering. Saved for fat extraction

759 ♂ ad

Calidris alpina

55.3

32.8/5.7/- . t = 3mm, far light.
Early molt. No b.p. Stomach 0.2 g.

760 ♀ ad.

Calidris alpina

58.3

33.8/6.0/4.7. lg. fol. = 1mm, far light
b.p. present. v. early molt. stomach
0.1 g. Saved for fat extraction.

20 July

761 1st yr. ♀

Barrow, Alaska

Nyctea scandiaca

5 Lb. 2 oz.

shot by James Ahgsek. Birnirk

lg. fol. 1mm, far moderate

Maclean
1967

Specimen Catalog

7.

26 July

Barrow, Alaska

762 ♀ ad

Calidris melanotos

66.0

27.8/5.7/4.4 . fol. to 1mm, heavy molt.
light fat. b.p. present

763 ♀ ad.

C. melanotos

60.5

26.6/5.5/4.3 . fol. to 1mm, heavy body molt.
moderate fat. b.p. present.

764 ♀ ad.

C. melanotos . fa

74.5

26.0/5.8/4.3 . fol. to 1mm mod. molt.
heavy fat . b.p. present.

765 ♀ ad.

C. melanotos

72.0

29.6/5.4/— . fol. to 1mm, heavy fat.
no molt. b.p. present.

27 July

Barrow, Alaska

766 ♀ ad.

Calidris alpina . t.w.c. #27 feeding ds. 55.0

36.4/6.2/4.7 . fol. to 1mm; v. light fat.
b.p. present. heavy molt-body & primaries.

767 ♀ ad

C. melanotos

T.W.C. #26 .

64.1

27.0/—/— . heavy fat; heavy molt.
b.p. present. fol. to 1.5 mm .

768 ♀ ad

C. alpina

60.0

35.1/5.3/4.1 . light fat. molt body + prim.
fol. to 1mm . b.p. present. T.W.C. #30.

769 ♂ ad

C. alpina

light fat. molt body &

34.3/5.9/4.2.

primaries.

53.0

T.W.C. #28 .

T = 3.5

Nachrean
1967

Specimen Catalog

8.

28 July

Barrow, Alaska

770 ♀ ad

Colinus alpinus T.W.C. feeding 57.0
obs. # 35. 37.5/5.7/4.0 fat light.
molt - light on body; heavy on primaries.
fol. to 1 mm. b.p. present.

771 ♂ ad

Pluvialis dominica - T.W.C. # 32. 175.0
22.8/5.9/4.7. fat heavy, body molt heavy.
no b.p. t = 5.0 mm.

772 ♀ ad

Pl. dominica T.W.C. # 33 190.6
23.6/5.9/5.2 fol. to 1.5 mm, fat heavy.
no b.p. molt heavy, advanced.

773 ♀ ad

Pl. dominica T.W.C. # 34 182.2
22.3/6.3/5.3. b.p. present. fat
moderate. fol. to 1 mm, molt mod.

20 July

Barrow, Alaska

774 ? juv.

C. alpinus - trapline IV-B:6.0 31.4

30 July

Barrow, Alaska

775 ♂ imm.

C. pusillus 23.7
16.7/4.3/3.5 t = 2 mm. fat light

776 ♂ imm

C. pusillus 23.7
16.0 / - / - t = 1 mm, fat moderate.

777 ♂¹ imm.

C. pusillus t = 2 mm, 22.3
16.1/4.3/4.0. fat moderate

778 ♀ imm.

C. pusillus fat moderate. 26.1
17.7/4.4/3.6

Maclean
1967

Specimen Catalog

9.

30 July] 779 ♀ imm.

Calidris pusillus

27.3

18.5/4.2/— . fat moderate.

25 July

780 ♂ imm.

Birnirk - N.E. of Barrow, Alaska

C. ~~alpina~~ pusillus

23.0

banded 75-26632 t=2mm, fat moderate

28 July

Barrow, Alaska

781 ♀ ad.

Calidris melanotos

61.1

27.7/5.3/4.1 fat. to 1mm, moderate fat

b.p. present. heavy body molt.

782 ♀ ad

C. melanotos

70.9

28.3/5.4/4.1 fat. to 1.5mm, heavy fat,
heavy body molt. b.p. present.

783 ♀ ad

C. melanotos

74.2

26.5/5.0/3.8 . fat. to 1mm, heavy fat
heavy body molt, b.p. present.

784 ♀ ad

C. melanotos

68.1

27.6/5.1/4.0 fat. to 1mm, moderate fat.
early body molt. b.p. present.

785 ♀ ad.

C. melanotos

71.1

28.1/5.2/3.7 . fat. to 1mm, heavy fat.
early body molt. b.p. present.

31 July

Barrow, Alaska

786 ♀ ad.

Calidris alpina

54.9

34.0/5.1/4.6 . fat. to 1mm, light fat.
early body molt. No b.p.

787 ♀ ad

C. alpina

57.7

33.0/5.2/4.8 . fat to 1mm. v. light fat.
heavy molt, no b.p. fat fat extract.

Maclean
1967

Specimen Catalog

10.

31 July	788	♀ ad	<u>Calidris alpina</u>	58.0
			34.9/5.3/4.6 . fol. to 1mm, fat lighter. no b.p. heavy molt.	
	789	♂ ad	<u>Calpina</u>	54.7
			32.3/5.0/4.6 t=3mm, fat light, no b.p. early molt.	
	790	♂ ad	<u>Calpina</u>	52.7
			31.2/4.6/4.7 t=3mm, light fat, early molt. b.p. present	
3 Aug 1967			<u>Barrow, Alaska</u>	
	791	♀ ad	<u>Calidris melanotos</u>	72.8
			27.6/5.0/4.0 . fol. to 1mm, fat moderate+, early molt. b.p. incomplete.	
	792	♀ ad	<u>C. melanotos</u>	60.0
			28.6/5.6/4.0 . fol. to 1mm, fat moderate molting. b.p. present.	
31 July			<u>Birnisk - N.E. of Barrow, Alaska</u>	
	793	♂ imm	<u>Rissa tridactyla</u>	300.0
			t=4mm, fat light. stomach empty	
5 August			<u>Barrow, Alaska</u>	
	794	♂ imm.	<u>Calidris pusillus</u>	25.4
			16.0/4.8/3.6. t=2mm, fat heavy	
	795	? imm.	<u>C. pusillus</u>	25.9
			17.4/4.3/3.4 . lighter fat. down around bill.	
	796	♂ imm.	<u>C. pusillus</u>	27.9
			16.4/3.8/3.2 t=?mm, fat moderate	
	797	♀ imm	<u>C. pusillus</u>	27.3
			18.0/4.0/3.6 . fat moderate	

Maclean
1967

Specimen Catalog

11.

5 August	798	♀ imm.	<u>Calidris pusillus</u>	26.9g.
			25.6 / 4.6 / 3.6 . far light.	
	799	♀ ad.	<u>C. alpina</u>	54.3
			31.8 / 5.9 / — . Out to 1mm, light far. heavy molt. No b.p.	
	800	♂ ad.	<u>C. alpina</u>	62.1
			34.5 / 5.8 / 4.5 . t = 3mm, light far. v. heavy molt. no. b.p.	
	801	♀ ad.	<u>C. melanotos</u>	72.8
			25.9 / 5.1 / 4.0 . tp. fol > 1mm, far heavy. heavy molt. b.p. present.	
	802	♂ imm.	<u>C. melanotos</u>	69.2
			25.3 / 5.0 / 4.1 . t = 3mm, far light.	
	803	♂ ad.	<u>C. alpina</u>	59.8
			35.0 / 5.8 / 4.9 . t = 2mm, v. light far. molt advanced. no b.p.	
	804	♂ ad.	<u>C. alpina</u>	59.9
			32.7 / 6.0 / 5.0 . t = 3mm, light far. molting. b.p. present.	
	805	♀ ad	<u>Pluvialis dominica</u>	180.0 ^x
			22.0 / 6.0 / 5.0 . fol. to 1mm, heavy far heavy molt. b.p. present.	
9 August			<u>Barrow, Alaska</u>	
	806	♂ ad.	<u>Calidris alpina</u>	54.1
			34.3 / 5.7 / 4.8 . t = 2mm, far v. light. heavy molt. do b.p. present	
	807	♂ ad	<u>C. alpina</u>	55.4
			33.3 / 5.9 / — . t = 3mm, light far, heavy molt.	

Moelzer
1967

Specimen Catalog

12.

808 ♀ ad.

C. alpina

62.6

35.3/5.8/4.9 t=1mm, far lighter,
heavy molt.

1 August

Barrow, Alaska

809 ♂ ad

Calionis alpina

59.5

34.1/5.9/4.4 t=3mm, lighter, heavy molt.

810 ♂ imm.

Phalaropus fulicarius

46.6

19.6/4.3/3.9 t=3mm, far lighter

811 ♂ imm

Phalaropus fulicarius

47.4

21.6/4.1/4.1 t=4mm, moderate far.

2 August

Birnirk - 7 mi NE. of Barrow, Alaska

812 ♀? 1mm

Micropalama himantopus

70.4

far heavy

813 ♂ ad

Calionis alpina

53.2

33.3/6.2/5.7 . t=2mm, far lighter, heavy molt

814 ♂ imm.

C. pusilla

22.3

20.3/-/- . t=2mm, far lighter

14 August

Barrow, Alaska

815 ♂ ad

Calionis alpina

54.1

32.7/5.6/5.0 t=3mm, far lighter, molt heavy and
early. No b.p.

816 ♀ ad

C. alpina

65.2

32.6/5.6/5.3 ova to 1mm, far moderate.

817 ♂ ad

C. alpina

54.2

33.7/5.7/5.0 . t=3mm, far lighter

818 [♂ ad]

C. alpina

57.4

35.4/5.8/5.0 . t=3mm, far lighter,
heavy molt.

Maclean
1967

Specimen Catalog

13.

14 July]	819	♂ ad.	<u>C. alpina</u>	64.7
			31.8/5.4/4.8 t=3mm, far heavy, not heavy.	
	820	imm.	<u>Phalaropus fulicarius</u>	48.7
			23.0/3.9/4.5 light far.	
	821	[imm.]	<u>Ph. fulicarius</u>	44.0
			26.5/6.0/4.0 light far.	
16 August			<u>Barrow, Alaska</u>	
	822	♂ ad	<u>Calidris alpina</u>	60.4
			31.2/5.4/4.8 t=3mm, far light	
	823	♀ imm.	<u>C. melanotos</u>	65.6
			25.8/5.4/4.3 far moderate	
7 August			<u>Barrow, Alaska</u>	
	824	♀ ad.	<u>Gavia aramsii</u>	10.5 lbs.
			found shot near Birnirk. tot to 4mm.	
18 August			<u>Barrow, Alaska</u>	
	825	♀ ad.	<u>Calidris alpina</u>	62.1
			34.5/5.4/4.4 tot to 1mm, far moderate.	
	826	♂ (!) ad	<u>C. alpina</u>	67.7
			33.2/6.0/5.0 t=2.5mm, light far.	
308	827	♂ imm.	<u>C. melanotos</u>	74.2
			30.5/6.3/4.6 t=2mm, far light+.	
	828	imm.	<u>Phalaropus fulicarius</u>	49.7
			22.0/3.8/4.0 trapline II - 9.4	
19 August			<u>Barrow, Alaska</u>	
	829	♀ ad.	<u>Calidris alpina</u> III A - 3.2	60.8
			36.0/5.6/4.5 tot. tot 1mm, far moderate	

Maclean
1967

Specimen Catalog

14.

20 August

Barrow, Alaska

830 ♀ imm.

Pluvialis dominica

150.6

22.8/5.5/5.0 fat < 1mm, far moderate

831 ♂ imm.

Limnodromus scolopaceus

102.2

60.5/7.6/5.4 t = 5x1mm, far light

832 ? imm.

Calidris alpina

56.2

32.8/5.8/4.8 far light

833 ♂ imm.

C. melanotos

75.5

27.9/5.2/4.3 t = 2mm, far moderate.

834 ♀ imm.

C. melanotos

66.5

27.0/5.5/4.2 far heavy.

21 August

Barrow, Alaska

835 ♀ imm.

Pluvialis dominica

176.7

23.4/6.6/5.4 far v. heavy

836 ♂ imm

Limnodromus scolopaceus

108.1

56.0/7.0/5.9 far light. t = 3mm

837 ♀ imm

Limnodromus scolopaceus

109.3

70.8/7.1/6.0 far light. follic. < 1mm

22 August

Barrow, Alaska

838 ♂ imm.

Limnodromus scolopaceus

100.6

59.3/7.3/5.8 t = 3mm, far light

839 ♂ imm

Pluvialis dominica

191.7

23.4/6.5/5.8 t = 2mm, very heavy far

840 ♀ ? ad.

Calidris alpina

63.4

32.8/5.5/4.5 moderate far, heavy molt.

841 ♂ ad

C. alpina

63.7

32.6/5.8/4.8 t = 3mm, moderate far

Maclean
1967

Specimen Catalog

15.

Aug 3	842	♂ ad.	<u>Calidris alpina</u>	65.5
			34.3/6.1/4.8 t=2mm, moderate fat	
3 August			<u>Barrow, Alaska</u>	
	843	♀ imm.	<u>Calidris alpina</u>	71.4
			37.7/-/- . fat heavy	
	844	♀ imm.	<u>C. alpina</u>	66.7
			36.5/6.0/4.8 fat moderate	
	845	♀ imm.	<u>Limnodromas scolopaceus</u>	113.0
			69.3/1.8/5.7 light fat.	
4 August			<u>Barrow, Alaska</u>	
	846	♂ imm.	<u>Calidris melanotos</u>	98.0
			29.1/5.8/6.2 t=3mm, heavy fat.	
5 August			<u>Barrow, Alaska</u>	
	847	♀ imm.	<u>Calidris melanotos</u>	71.8
			28.0/5.4/4.1 fat heavy.	
6 August			<u>Barrow, Alaska</u>	
	848	♀ imm.	<u>Pluvialis dominica</u>	197.7
			22.4/5.8/5.3 . fat very heavy.	
7 August			<u>Barrow, Alaska</u>	
	849	♀ ad.	<u>Calidris melanotos</u>	72.1
			27.5/5.5/4.3 . ova to 1mm, fat heavy	
	850	♀ imm.	<u>C. melanotos</u>	47.2
			26.1/5.2/4.5 v. light fat.	

Maclean
1967

Specimen Catalog

16.

6 August

Umiat, Alaska

(Collected in mouse traps by C. M. White)

802 ♀ sa Clethrionomys rutilus 122-26-17-12 18.7g.

803 ♂ Clethrionomys rutilus 115-26-19-11 18.0g.

Prepared by D.L. Beaver

804 ♂ ad. Passerella iliaca t=2mm, fat light, 39.0g.
heavy molt.

Lachlan
1968

Specimen catalog

1 June

Barrow, Alaska

860 ♂ ad Calidris melanotos 85.9g.

27.7/5.7/4.3 . light fat; t=14x8mm.

861 ♀ ad Calidris alpina 60.3

39.0/6.2/5.3 . light fat; ovato 2mm

862 ♀ ad C. alpina 64.2

37.8/6.0/5.0 . light fat; ova to 3mm

863 ♂ ad C. alpina 52.7

32.8/5.5/- . light fat; t=10x6mm

3 June

Barrow, Alaska

864 ♂ ad C. melanotos 101.6

27.9/6.2/4.5. mod. fat; t=14x8mm.

865 ♂ ad C. melanotos 100.0

28.7/5.6/4.2 . light fat; t=12x7mm

866 ♀ ad. C. alpina 63.0

31.7/5.5/5.0 . Heavy fat; ova to 4mm. nob.p.

867 ♀ ad C. alpina 67.8

33.7/6.3/5.0 light fat; ovato 5 + 2 rupt. follics.

~~868 C. alpina 56.0~~

~~(no bill measurements) . light fat; gonads shot.~~

4 June

Barrow, Alaska

869 ♂ ad C. melanotos 97.7

30.0/5.6/4.3 . light fat; t=14x8mm.

870 ♂ ad C. melanotos 93.4

29.0/5.3/4.3 . mod. fat; t=14x8mm.

871 ♂ ad. C. alpina t=9mm, no fat 34.0/6.0/4.3 48.5

872 ♀ ad C. alpina lt. fat; 1 coll. foll, 68.3

37.5/5.8/4.8 2nd just ruptured - ovum intact.

Maclean
1968

Specimen record

June)	873	♀ 1 st year	<u>C. alpina</u>	- lt. fat, ova to 4.5mm	57.8g
			35.0/6.0/5.3		
	874	♂ ad.	<u>C. alpina</u>		59.3g
			34.6/6.0/4.7	• light fat; t=14x5mm	
	875	♀ ad.	<u>C. alpina</u>		63.3
			37.1/6.0/5.0	• no b.p. • light fat; ova to 10mm.	
5 June			<u>Barrow, Alaska</u>		
	876	♀ ad.	<u>C. melanotos</u>	• mod. fat; ova to 4mm.	70.6
			26.8/5.3/4.4	(SM 022 feeding obs.)	
June			<u>Barrow, Alaska</u>		
	877	♀ ad.	<u>C. melanotos</u>		64.3
			25.3/5.2/4.0	• mod. fat; ova to 7mm.	
	878	♂ ad.	<u>C. melanotos</u>		89.7
			29.5/5.6/4.2	• mod. fat; t=13x8mm.	
	879	♀ ad.	<u>C. alpina</u>		59.0
			34.2/5.9/4.8	• light fat; ova to 4mm. no b.p.	
10 June			<u>Barrow, Alaska</u>		
	880	♂ ad.	<u>C. melanotos</u>	(SM 052)	90.5
			28.1/5.4/4.8	• mod. fat; t=10x5mm.	
	881	♂ ad.	<u>C. melanotos</u>	(SM 054)	94.4
			28.5/-/-	• Heavy fat; t=14x8mm	
12 June			<u>Barrow, Alaska</u>		
	882	♀ ad	<u>C. alpina</u>	(nest #2) not injected-	60.6
			33.9/5.4/4.7	• v. light fat; ova to 9mm + 4 rupt. follics.	
	883	♀ ad.	<u>C. alpina</u>	(nest #1)	63.5
			40.5/6.4/5.4	• light fat; ova to 5mm + 4 rupt. follics.	
	884	♀ ad.	<u>C. alpina</u>	(nest #3)	68.0
			36.1/6.0/5.0	• ova to 9mm + 4 rupt. follics; v. light fat	

Laake
1968

Specimen record

2 June	885 ♂ ad.	} paired	<u>Calidris melanotos</u>	100.0g.
			31.8/5.6/4.5 . mod. fat; t=14x8mm	
	886 ♀ ad.		<u>C. melanotos</u>	69.8
			28.8/5.2/4.3 . Heavy fat; ova to 5mm.	
	887 ♂ ad.		<u>C. melanotos</u>	88.2
			28.0/5.5/4.7 . v. light fat; t=10x6mm.	
4 June			<u>Barrow, Alaska</u>	
	888 ♀ ad.		<u>C. pusillus</u> (with clutch of 4 eggs)	28.3
			19.0/4.4/3.8 . Ova to 3mm. + 4 recently rupt. follics. moderate fat.	
5 June			<u>Barrow, Alaska</u>	
	889 ♂ ad.		<u>C. melanotos</u>	98.6
			28.8/-/- . mod. fat; t=12x8mm.	
	890 ♂ ad.	} together	<u>C. melanotos</u>	99.7
			28.8/-/- . mod. fat; t=11x7mm	
	891 ♀ ad.		<u>C. melanotos</u>	78.1
			27.6/-/- . Heavy fat; ova to 5mm.	
	892 ♀ ad.		<u>C. melanotos</u>	71.2
			25.6/-/- . Heavy fat; ova? - not > 5mm.	
	893 ♀ ad.		<u>C. melanotos</u>	69.1
			25.8/-/- . Heavy fat; ova to 5mm	
18 June			<u>Barrow, Alaska</u>	
	894 ♂ ad.		<u>C. bairdii</u>	38.4
			22.1/5.0/3.7 . mod. fat; t=10x6mm. no b.p.	
	895 ♂ ad.		<u>C. bairdii</u>	37.4
			22.2/4.4/3.5 . t=10mm; light fat	
19 June			<u>Barrow, Alaska</u>	
	896 ♂ ad.		<u>C. melanotos</u> (SN 077 from obs.)	101.8
			22.4/5.6/4.9 . light fat; t=12x7mm.	

Lachlan
1968

Specimen record

June)	897	♂ ad.	<u>C. melanotos</u>	92.2g
			29.5/5.7/4.1 . light fat; t=13x6mm.	
June			<u>Barrow, Alaska</u>	
	898	♀ ad presumed pair- w/ 4 eggs.	<u>C. bairdii</u> light fat.	44.0
	899	♂ ad	23.3/4.7/3.8 (shot) ova to 5mm + 4 rupt. follics.	
	899		<u>C. bairdii</u>	41.8
			21.8/4.3/3.8 . t=8x4mm; mod. fat	
June			<u>Barrow, Alaska</u>	
	900	♀ ad.	<u>C. melanotos</u> - nest #1 - w/4 eggs.	73.2
			Heavy fat; ova to 4mm.	
	901	♀ ad	<u>C. melanotos</u> - nest #2 - w/4 eggs.	67.6
			Heavy fat; ova to 3mm.	
	902	♂ ad	<u>C. melanotos</u> - assoc. w/ ♀ 900 and 901	101.9
			v. light fat; t=12x7mm	
Hatched by III A-B.	903	♂ ad.	<u>C. melanotos</u>	103.5
			29.4/5.3/4.7 . light fat; t=12x8mm.	
	904	♂ ad.	<u>C. melanotos</u>	98.6
			28.0/5.3/4.0 . light fat; t=12x8mm.	
	905	♂ [ad.]	<u>C. melanotos</u>	93.5
			27.4/5.2/4.2 v. light fat; t=15x9mm.	
Rock - Voth	906	[♂]	<u>C. melanotos</u>	86.5
			28.4/5.3/4.3 . light fat; t=9x6mm.	
Err. by gasline R.	907	♂ ad.	<u>C. melanotos</u>	106.9
			27.7/5.4/4.7 v. light fat; t=14x7mm	
Hocks - evening.	908	♂ ad.	<u>C. melanotos</u>	106.6
			30.0/5.2/4.5 . light fat; t=12x7mm.	
	909	♂ ad.	<u>C. melanotos</u>	101.6
			31.7/5.4/4.3 v. light fat; t=15x9mm	

Nachson
1968

Specimen record

23 June

Barrow, Alaska

terr. w/ ♀ by X	910 ♂ ad.	<u>Calidris melanotos</u>	107.7g
		28.3/5.6/4.3 . v.l. fat; t = 12x7mm.	
m lock	911 ♂	<u>C. melanotos</u>	98.7
		29.0/5.5/4.6 . mod. fat; t = 15x8mm.	
	912 ♂	<u>C. melanotos</u>	80.5
		26.3/-/- lighter fat; t = 11x5mm	
	913 ♀ ad.	<u>C. melanotos</u> trapline I: 4.8 . mod. fat.	75.1
		27.9/5.1/4.2 fresh brood patch. ova 14, 7, 7mm + 2 rupt. foll.	
	914 ♀ ad.	<u>C. alpina</u> trapline II: 9.4 not injected 70A	
		39.7/-/- well dev. b.p. egg in oviduct + 4 rupt. 3 v.l. fat	

22 June

Barrow, Alaska

915 ♀ ad.	<u>Perisoreus canadensis</u>	ova minute; fat v. light	70.6
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24 June

Barrow, Alaska

	916 ♀ ad.	<u>Calidris alpina</u> trapline X: 9.2	63.5
		33.4/5.6/4.9 . 2 rupt. folls; ova 12, 5mm. v. light fat.	
	917 ♂ ad.	<u>C. melanotos</u> trapline	80.0
		28.3/5.5/4.3 . no fat; t = 11x7mm.	
territorial by gasline	918 ♂ ad.	<u>C. melanotos</u> -	97.6
		28.0/-/- . lighter fat; t = 12x8mm.	
	919 ♀ ad.	<u>C. alpina</u> trapline I: 4.2 no body fat.	58.5
		36.0/5.7/4.5 b.p. present, fresh. ova 17, 10, 5, 5mm	

26 June

Barrow, Alaska

	920 ♀ ad.	<u>C. alpina</u> trapline II - 9.6	59.5
		34.4/5.9/4.8 . mod. fat; ova to 3mm.	

25 June

Barrow, Alaska

	921 ♂ ad.	<u>Acanthis flammea</u> t = 7x6mm, v.l. fat	13.7g
	922	<u>Plectrophenax nivalis</u> - just hatched	2.8

Machean
1468

Specimen record

- 27 June Barrow, Alaska v. light fat;
t = 7x4mm.
923 ♂ ad. Calidris alpina trapline III B: 0.0, 0.2, or 0.4 493g
30.7/5.1/4.6 b.p. not active; heavy molt.
- 28 June Barrow, Alaska
924 ♀ ad C. alpina - trapline III B-2.0 no fat. 70.0
2 rupt. follicles; ova 15, 7mm.
36.8/5.3/4.2 b.p. not vascular. 21mm. ovum in oviduct
(note: bird drowned. May be heavy w/ water.)
924 ♂ ad. C. bairdii wire kill
21.4/-/- t = 10x6, no b.p.; moderate fat
- 29 June Barrow, Alaska
925 ? ad. Pluvialis dominica 180.4
22.7/5.8/4.2 b.p. re feathering.
926 ♂ C. melanotos 935
28.3/5.0/4.2 . Heavy fat; t = 9x5mm.
927 ♂ ad. C. bairdii - found dead
22.4/-/- t = 8mm, fat light; b.p. present.
- 30 June Barrow, Alaska
928 ♂ ad C. melanotos 1053
30.3/5.9/4.7 light fat; t = 11x7mm.
929 ♂ ad C. melanotos 94.7
30.4/5.8/4.2 . mod. fat; t = 10x6mm.
- 1 July Barrow, Alaska
930 ♂ ad C. melanotos not injected - 107.7
30.0/5.5/4.1 Heavy molt. v. Heavy fat; t = 5x3mm.
931 ? ad. Pluvialis dominica not injected 163.5
23.4/5.3/4.3 b.p. not vascular
- 29 June Barrow, Alaska
932 ♀ Phyloscopus borealis ova < 1mm.

Machean
1968

Specimen record

2 July

Barrow, Alaska

- 933 ♀ ad. Calidris pusillus. Heavy fat; ova to 1mm. 31.7g.
17.9/4.2/3.5 b.p. active - incubating; heavy molt.
934 ♂ ad. C. pusillus t = 5mm; Heavy fat. 27.6
17.9/4.0/3.5 no b.p.; heavy molt
935 ♀? ad. C. pusillus ova < 1mm; mod. fat 28.9
19.1/4.4/3.5 b.p. active, ^{Heavy} early molt stage.
936 ♀ ad. C. bairdii. Heavy fat; ova to 1mm. 50.4
22.8/4.3/3.4 b.p. present; molt beginning, heavy

3 July

Barrow, Alaska

- 937 ♂ ad. C. melanotos 96.5
28.1/5.0/4.0 no molt. mod. fat; t = 13x6mm.
938 ♂ ad. C. melanotos light fat; t = 10x5mm 92.1
27.9/5.5/4.7 molt beginning - pin feathers
939 ♂ ad. C. melanotos. mod. fat; t = 10x6mm 96.5
26.9/4.9/4.0 molt just beginning - pin feathers.
940 ♀ ad. C. melanotos. light fat; ova? - but small 58.9
27.2/4.8/3.9 b.p. active; no molt
941 ♂ ad. C. melanotos Heavy fat; t = 11x6mm. 107.3
29.7/5.4/4.3 molt: pin feathers to 1mm. long.
942 ♀ ad. C. alpina. ova to 2mm; light fat. 60.2
34.8/5.6/4.5 b.p. active; primary molt.
943 ♂ ad. C. melanotos Heavy fat; t = 6x3mm. 104.4
28.8/4.8/4.0 early molt: 1-2mm out of sheath.

8 July

Barrow, Alaska

- 944 ♂ ad. C. melanotos 97.0
29.5/5.3/4.2 early molt: pin feathers to 3mm
out of sheath. mod. fat; t = 6x4mm.

at Rock.
infral
Marsh
↓

Mochean
1968

Specimen record

3 July)	945 ♂ ad.	<u>Calidris melanotos</u>	92.2g.
		30.6/5.5/4.6 Heavy body molt. mod. fat; t=5x3mm	
	946 ♂ ad.	<u>C. melanotos</u>	92.5
		30.5/5.3/4.2 Advanced body molt. Heavy fat; t=5x2mm	
	947 ♂ ad.	<u>C. melanotos</u> mod. fat; t=6x3mm	91.8
		28.5/5.4/4.3 Early body molt - pin feathers & beyond.	
	948 ♂ ad.	<u>C. melanotos</u> mod. fat; t=6x3mm	94.4
		26.6/5.3/4.1 Heavy body molt - out of sheaths.	
	949 ♀ ad.	<u>C. melanotos</u> mod. fat; ova to 3mm.	63.2
		26.5/4.8/4.2 Well adv. b.p.; no molt.	
July		<u>Barrow, Alaska</u>	
	950 ♀ ad.	<u>C. melanotos</u> not injected	70.5
		27.4/5.2/4.0 . Heavy fat; ova < 1mm. Heavy molt.	
July		<u>Iktroavik Lake, 5 mi. So. of Barrow, Alaska</u>	
	951 ♂ ad.	<u>C. melanotos</u> Heavy fat; t=4x2mm.	102.2
		29.0/-/- . molt advanced - nearly complete.	
	952 ♂ ad.	<u>C. melanotos</u> mod. fat; t=7x3mm	100.0
		27.1/5.6/4.4 heavy body molt. skin p. gone	
	953 ♂	<u>C. melanotos</u>	92.2
		29.6/5.3/4.2 molt advanced. heavy fat. t=4.5mm.	
	954 ♀ ad	<u>C. melanotos</u>	64.3
		26.4/5.0/4.0 b.p. present, refeathering. mod. fat; ova < 1mm. heavy molt in early stage	
	955 ♀ ad	<u>C. melanotos</u> Heavy fat; ova to 1mm.	72.8
		28.4/5.0/3.8 b.p. re feathering. molt: pin feathers & bristles	
	956 ♀ ad	<u>C. melanotos</u>	64.6
		27.0/5.2/4.0 b.p. old, refeathering. Heavy fat; ova to 1mm. molt: out of sheaths.	

Nachson
1968

Specimen record

7 July

957 ♀ ad.

Barrow, Alaska

Calidris alpina

lighter far;
ova < 1mm.
not injected

59.6

39.6/5.2/5.0 b.p. active, no body molt. trapline I: 10.0

21 July

958 ♀ imm.

C. alpina

Line IV B: 7.2

43.2g

959 ♂ imm

C. alpina

Line III B: 7.4 t=2mm.

50.5

960 ♂ imm.

C. alpina

Line III B: 6.8 t=2mm.

36.3

961 ♂ juv.

C. alpina

Line III B: 6.8

26.2

962 ♀ juv.

C. alpina

Line III B: 6.0

27.2

963 ♂ juv.

C. melanotos

Line IV B: 0.2

28.8

964 ♀? imm.

C. pusillus

Line III B: 4.2

22.3

22 July

965 ♀ ad.

Barrow, Alaska

C. alpina . lighter far

ova < 1mm

not injected -

57.4

34.6/5.6/4.3

b.p. refeathering; ^{u. early} body molt.

? → 966 ♂ ad.

C. alpina

not injected -

57.2

32.9/5.4/4.6

b.p. not vascular; head molting.
no fat; ova < 1mm.

967 ♀ ad.

C. alpina

NOT INJECTED -

55.7

34.6/5.8/4.6

b.p. small, not vascular. Molt beginning.

23 July

968 ♂ ad.

Barrow, Alaska

C. bairdii

trapline VI: 1.2 t=3mm; lighter far.

38.2

22.9/4.1/3.6

Heavy body molt. b.p. recent.

969 juv.

Phalaropus fulicarius

not inj - 19.2

trapline VIII: 8.6

970 juv.

P. fulicarius

trapline VIII: 3.0 not inj - 23.4

24 July

971 juv.

P. fulicarius

trapline VII: 6.2 n.i. 24.3

972 ♀? imm.

P. fulicarius

trapline VII: 7.8 n.i. 42.6

973 ♂ imm.

C. alpina

trapline IV: 0.6 v.l. far 52.1

Machens
1968

Specimen record

25 July

Barrow, Alaska

974 ♂ juv. Calidris melanotos Line VII: 8.8 not inj. 52.6g
t = 2mm, v.l. fat

975 ♂ ad. Phalaropus fulicarius Line VIII: 8.2 n.i. 38.9

22.2/4.1/4.2 b.p. regressing; t = 3mm; no fat
v. light fat - gas minute.
976 ♀? imm. C. alpina Line VIII: 0.8 n.i. 54.8

977 ♂ ad. limosa lapponica ~~lapponica~~ t = 4x2.5; v.l. fat. heavy molt 256.7g

b.p. present.
978 ♀ ad. limosa lapponica ~~lapponica~~ lg. fol. < 1mm; v.l. fat 287.3
heavy molt; no b.p.

979 juv. Phalaropus fulicarius Line VIII: 3.6 36.0

1 August

Barrow, Alaska

980 ♂ ad. Lemponetta fischeri (lost - too old)
found dead 1248g

7 August

Barrow, Alaska

981 ♀ ad. Calidris melanotos 56.0

28.9/4.4/4.0. mod. fat; lg. fol. = 1mm.

982 ♂ imm. C. melanotos 76.0

29.5/5.8/4.4. moderate fat; t = 2mm.

983 ♂ imm. C. melanotos 69.2

32.0/5.8/4.5. v. light fat; t = 2mm.

12 August

Barrow, Alaska

984 ♀ imm. C. alpina not injected - 48.7g

29.9/5.8/4.2 no fat. ova in oviduct; heavy molt.

14 August

Barrow, Alaska

985 ♀ imm. C. melanotos not injected 53.4

27.0/5.3/4.4 trapline XI: 9.6 light fat

Maclean
1968

Specimen record

7 August

Barrow, Alaska

- 986 ♂ imm. Calidris melanotos trapline II: 4.2 ^{NOT} inj. - 76.7g.
31.6/5.6/4.1 heavy fat; t = 2.5 x 1 mm
- 987 ♂ imm. C. melanotos much down on face, neck. 63.9
v. light fat; t = 2 x 1 mm
- 988 ♂ imm. C. melanotos 82.7
29.4/5.5/3.6 • Heavy fat; t. destroyed

18 August

Barrow, Alaska

- 989 ♀ imm. C. melanotos 52.3
27.4/5.3/3.9 • v. light fat; ~~ova~~ ova < 1 mm.
- 990 ♂ imm. C. melanotos 75.2
28.6/5.9/4.5 • mod. fat; t = 3 x 1 mm
- 991 ♂ imm. C. melanotos 77.3
28.3/5.2/3.8 • Heavy fat; t = 3 mm.
- 992 ♀ imm. C. melanotos 58.5
27.7/4.6/3.5 • moderate fat; ova < 1 mm
- 993 ♂ imm. Tryngites subruficollis trapline II: 2.4 ^{not} inj. - 68.3
20.0/3.7/3.3 t = 2 x 1 mm; heavy fat

19 August

Barrow, Alaska

- 994 ♂ imm. Calidris melanotos 72.7
29.0/6.1/4.3 • light fat; t = 2 x 1 mm
- 995 ♀ imm. C. melanotos 64.9
26.8/5.6/3.9 • moderate fat; ova minute

20 August

Barrow, Alaska

- 996 ♂ imm. C. melanotos 85.6
28.4/5.7/4.0 • Heavy fat; t = 2 x 1 mm.
- 997 ♂ imm. C. melanotos trapline VII: 9.4 ^{not} inj. - 70.0
27.2/5.5/4.2 • light fat; t = 3 mm

Maclean
1968

Specimen record

0 August

Barrow, Alaska

958 ♀ imm.

Calidris melanotos trapline VII: 9.4 ^{not} inj - 58.1g

28.9/5.2/3.5 Heavy fat, ova < 1mm.

5 August

Barrow, Alaska

959 ♀ imm.

Tryngites subruficollis trapline I: 1.6 ^{not} inj - 53.2

18.7/3.4/3.4 Heavy fat; ova < 1mm.

21 August

Barrow, Alaska

1000 ♂ imm.

C. melanotos trapline VII: 10.0 ^{not} inj - 95.5

30.1/5.0/3.7. v. Heavy fat; t = 2x1mm.

27 June

Eagle Summit, Mile 110 Steese Hwy, Alaska

1001

juv.

Aphriza virgata coll. by R.B. WEEDEN 15.3g.

yolk in gut. legs blue-gray.

1002

juv.

Aphriza virgata coll. by R.B. WEEDEN 15.7g.

yolk in gut. legs bluegray.

15 July

Barrow, Alaska

1003 ♀ ad.

Calidris alpina ^{not} inj. 56.1

38.0/5.9/4.5. v. light fat; ova < 1mm. early belly molt.

28 August

Barrow, Alaska

1004 ♀ imm

Calidris alpina v. light fat; ova minute 62.9g

31 July

Barrow, Alaska

1005 ♀? imm.

C. pusilla light fat, ova minute ^{not} inj. 21.4g.

15 July

Barrow, Alaska

1006 ♀? ad.

C. pusilla ^{not} inj. 27.8g.

20.3/-/-. v. Heavy fat; gonads minute.

1 August

Barrow, Alaska

1007 ? imm.

C. pusilla ^{not} inj. 17.1g.

no fat; gonads minute.

S. MacLean

1964 - 1968

Trapline catalog:
1964

Maclean
1964

1964 Trapline Shorebirds kill

001	15 July	II - 2.8	pus.	19.3g.
002	15 July	I - 4.2	pus	22.8g. 20.7
003	15 July	II - 6.8	pus	22.8g.
004	15 July	I - 10.0	pus	23.8g.
005	15 July	II - 4.6	pus	21.8g.
006	19 July	VIII - 9.8	pus	24.8g.

007

007	15 July	II - 8.6	baire	32.3g.
008	25 July	IV - 3.0	?	9.0g.

retained for comparison at MUZ

009	19 July	XIV - 7.0	P.f.	19.7g.
010	19 July	XIII - 8.2	P.f.	33.8g.
011	19 July	XIII - 9.2	P.f.	30.3g.
012	19 July	XIII - 8.6	P.f.	33.3.
013	19 July	XIV - 7.8	P.f.	18.4
014	19 July	XIV - 7.8	P.f.	18.8

015	19 July	VII - 6.8	pus	22.1g.
016		6.6	pus	19.8g.
017		4.4	pus	21.7g.
018	15 July	II - 1.8	b	35.3g.
019	19 July	VII - 10.0	pus	19.4g.
020	19 July	VI - 0.4	b	22.4g.

Maclean
1964

Shorebirds Trapline Bill

21

021	14 July	<u>XIII</u> - 2.4	mel.	28.5g.
022	15 July	I - 3.4	b	33.8g.
023	15 July	I - 4.4	b	33.8g.
024	19 July	<u>XIII</u> - 5.0	mel	44.5g.
025	19 July	<u>XIII</u> - 4.8	mel	24.3g.
026	19 July	<u>VII</u> - 7.4	mel	33.5g.

027	20 July	<u>VII</u> - 9.6	mel	26.3.
028	20 July	<u>VIII</u> - 8.0	mel	25.5g.
029	21 July	<u>VII</u> - 9.2	mel	24.8g.
030	21 July	<u>VII</u> - 8.6	mel??	27.4

retained for comparison

031	20 July	<u>VII</u> - 8.0	a	31.3g.
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032	16 July	I - 1.6	a	33.9g.
033	24 July	<u>III</u> A - 2.0	a	24.5g
034	19 July	<u>XIII</u> - 3.2	mel	26.6g.
035	19 July	<u>XIII</u> - 2.8	mel	31.9g
036	24 July	<u>IV</u> A - 5.4	mel	18.0g

037

037	19 July	<u>XIII</u> - 4.2	mel	41.9g.
038	19 July	<u>XIII</u> - 0.6	mel	30.2g
039	19 July	<u>XIV</u> - 8.8	mel	40.6

Maclean
1964

trapline shorebirds bill

040 19 July XIV - 8.6 mel 18.7g.
042 19 July XIV - 5.2 mel 19.0g.
043 20 July XIV - 7.8 mel 24.3g.
044 20 July XIV - 6.0 mel 17.6g.

045 19 July XIII - 1.6 mel 26.4g.
046 21 July XIV - 9.4 mel 21.5g.
047 19 July XIV - 8.8 mel 27.6g.
048 19 July XIV 1.2 mel 14.7g.

049 19 July V - 4.6 mel 26.7g.
050 21 July VII - 10.0 mel 26.0g.
051 21 July XIII - 3.6 mel 25.9g.
052 20 July XIV - 7.6 mel 38.7g.

026 19 July VII - 7.4 mel 33.5g
long tall vial

053 19 July VIII - 9.8 a. 23.3g.

S. MacLean

1964 - 1968

Stomach contents catalog:
1966 - 1968

Maclea
1966

Shorebird Stomachs

15 March

Staphylinid beetles - common
usually only legs
Elongate shape; abbreviated elytra.

Carabid beetles - common
dark - parallel sculpturing to elytra.
→ mouth parts amber colored, broad-based
antennae, when present, segmented

Chrysomelidae - g. Chrysolina
ad - shiny metallic green elytra.
lar - large, swollen abdomen

Trichoptera -
adults v. rare - short-lived
larvae case bearer - 2 kinds.

Tipulid larvae -
Tipula carinifrons -
largest. Circi v. short.

Prionocera gracilostyla
large. Circi longer than tipula,
ringed.

Pedicia hannai
smallest - circi moderate length,
simple.

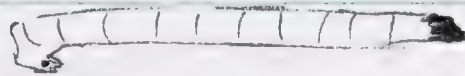
Maclean
1966

Shorebird Stomachs

5 March

Chironomid larvae -

Slender, segmented, dark heads,
gill region posteriorly - dark markings
turn darker w/ time



two dark spots at post. gill region.

Spaniotoma - most common g.

body unpigmented

Tipulid larvae - large,

body pigmented; stout

appendages around mouth - many, fine.

pigmentation - banded.

posterior end.  - dark.

rare

Dytiscid beetles:

Adult oval, v. dark. "prunose" color.

larvae predacious (falcate mandibles),

distinctly segmented, 1 pr. legs / segment.

Maclean
✓ 1966

Shorebird Stomachs

10 April (1)

Limnodromus - 7 - VII - 65

Tipula larvae - 12 (19, 14 mm)

Prionocera larvae - 7 & 13 large

1 large trichoptera larva

Chironomus lar. - 1 large

~~Adiantum / Hyacinth roots~~

2) alpina - (6) - 19 - VI - 65 SN 107

Lemmus long bone fragments

Tipula lar - 3 - small

Muscid lar - 2 - (10 mm each)

3) melanotos - RBH - 1 - 15 - VI - 65

5 lg. Tipula larvae

1 sm. Chironomus larva

1 ~~unio. larva~~ Muscid larva

unio. parts.

4) alpina - 19 - VI - 65 - (5) SN 102

~~unio. larva (same as above)~~

1 white - ca. 10 mm; 1 end blunt, other end

tapered w/ ➡ inside skin. = Muscid

1 Pedicia larva - ca. 10 mm +.

assorted Carabid parts - t.f.g.

fragments of Lemmus skull!

Maehra
1966


Shorebird Stomachs

- 30 April 5) C. alba - P. DeB - 434 ♂
1 large tipulid
few sm Carabid elytra fragments
?
- 6) ♀ phalarope - feeding in shallow pond - 6-VII-65.
1 Carabid - far gone
- 7) fuscicollis - ♂ 19-VI-65 SU 108
2 sm. Chironomid larvae
1 Carabid (?) head.
1 ?
- 8) melanotos - ♀ 19-VI-65 - SU 095
17 large Prionocera (?) larvae (fresh)
2 sm. Chironomid larvae (old)
- 9) melanotos - ♀ 3-VII
1 sm. Pelecid larva
2 sm. Chironomid larva
v. sm. dark amber segmental rings.
abdomen of Stephylinid (?)
brachycera pupa
- 10) melanotos ♀ - 23-VI-65 SU 151
2 spider
egg (?)

Maclean
1966


Shorebird Stomachs

30 April 11) C. pusillus ♂ 19-VI-65 - SU 098
5 sm. Chironomid lar. - fresh
2 " " " - old
4 large *Prionocera* lar.

12) C. fuscicollis - ♀ 19-VI-65 SU 106
sm. *Tipula* lar
2 { *Staphylinid* lar.
larva - 12 segments + 
1 lar. as alpine 102. Muscid
old carabid elytra parts - few.

1 May 13) C. melanotos - ♀ (nesting) 4 July, 1965
5 ad. Carabid
2 ad. *Staphylinid*
2 spiders
1 empty abdomen sac

14) P. fulvipes - ♀ 29-VI-65 PDEB 436,
no recognizable animal matter. not saved

15) C. pusillus - ♀ 17-VI-65 (4)
52 sm. Chironomid lar. - some P.F.G.
1 adult - antennae 4 segments (remaining)
= Collembola each segment of increasing size distally -
 v. small - 2mm.
1 spider.

Machea
1966

Shorebird Stomachs

- 1 May 16) *L. scolopaceus* - Imm. 22-VIII-65 - #2
empty.
- 17) *L. scolopaceus* - Imm. 22-VIII-65 - #2
✓
1 Muscio lar. - 14 mm
1 sm. Chironomid lar.
3 sm. *Prionocera* lar.
- 18) *L. scolopaceus* - Imm. 22-VIII-65 - #2
✓
1 muscio lar - 7 mm.
1 large *Prionocera* lar. - P.F.G.
- 19) *C. pusillus* - 15-VI-65 - RBH #1
✓
1 Staphylinid beetle
7 Chironomid lar - small
1 sm. spider
1 large spider.
- 20) *C. pusillus* - 15-VI-65 - RBH #2
✓
1 - as #15 - better condition. two
= Collembola elongate processes from end of abdomen.
13 sm. Chironomid lar. [8 fresh; 5 old]
1 muscio lar - 7 mm.
- 21) *Limosa haem* - 28-VI-65
no identifiable animal remains.
few pieces of tipulid larvae.

Maehsa
1966

Shorebird Stomachs

✓
1 May 22) C. pusillus - 15-VI-65 - RBH #3.

✓
1 - as #20 - Collembola,

ca 20 - old small chironomid lar,

1 spider

23) C. alpina - 19-VI-65 - #2.

2 large Prionocera

3 sm. Prionocera

end of larva - 0000~~00~~ - Staphylinid?

total length = 4 mm

15 nematodes - 3-5 mm.

24) C. alpina - 19-VI-65 #3

6 large Prionocera lar

6 sm. Prionocera lar

1 sm. Tipula lar

Lemnus molar, tibia.

25) C. alpina - 19-VI-65 #4

1 large Prionocera (23 mm) - v. fresh -
in lower oesophagus.

20 mm. Prionocera - just below v. fresh.

6 lg. Prionocera lar } older

5 sm Prionocera lar }

Maclachlan
1966

Shorebird Stomachs

✓
2 May 26) C. melanotos - 7-VII-65 #3

sm. spider

Muscio lar - 11 mm.

~~Trichoptera Larva (?)~~

~~21 ad. Dytiscid (prob. 2) part of~~

1 ad Carabid

27) C. melanotos - 7-VII-65 - #2

~~Trichoptera Larva?~~

28) C. melanotos - 7-VII-65 - #1

1 large Prionocera

3 sm. Chironomid lar

?

29) C. alpina - 25-VI (10)

fragments of Carabid elytra (1 or 2)

unident Tipulidae - Tipula or Prionocera larvae?

30) Phalaropus fulicarius - 25-VI-65

3 spiders

2 ~~Chironomid~~ Chironomid larvae - sm

fragments of ad. Carabid

" " metallic green elytron -

= Chrysomelid

Moehren
1966

Shorebird Stomachs

- ✓
- 2 May 31) C. melanotos - SM 461 15-VIII-65
87 large Chironomid lar.
1 sm. Prionocera lar.
- 32) C. melanotos - 15-VIII-65 - RBH 002
17 small Chironomid lar
1 large Chironomid lar.
misc. parts - Tipulidae - T.F.G.
~~Tipulidae = 18%~~
- 33) C. melanotos - 14-VIII-65 SM 460
69 Chironomid lar - T.F.G. to size
1 Prionocera lar. mouth part
- 34) C. alpina - 25-VI-65 - #7
1 lg. Prionocera lar.
4 sm. Prionocera lar
1 ad. Carabid
- 35) C. alpina - 25-VI-65 #8
1 large Tipula - lower esophagus
21 mm. very fresh.
2 ad. Carabids - 10mm - fresh.
43 sm. Tipula
43 Muscid lar - 10, 12, 9, 9 mm.
empty abdomen - spiozer (?)

Machens
1966

Shorebird Stomachs

May 36) C. alpine - 25-VI-65 - #9

2 large tipula larvae

8 small tipula

2 ad Carabids

1 Chironomid + FG

May 37) C. melanotos - imm ♀ 20-VIII-65 SN 467

Muscio lar - 13mm

7 sm. Chironomid lar.

1 spider

1 - Fragments of Carabid ad.

38) Limosporus scolopaceus - Imm. 18-VIII-65 SN 464

1 lg. Chironomid lar.

6 sm. Chironomid lar.

39) Lim. scol. - Imm. 18-VIII-65 - SN 463

3 Muscio lar. (?) - 15mm each.

one smaller.

12 sm. Chironomid lar.

May 40) Phal. ful. - 3 - VII - 65 10th Slough

2 lg. Prionocera lar

13 sm. Prionocera lar.

5 lg. Chironomid lar

16 sm. Chironomid lar.

gastropod shell - ca. 1.5mm.

Macler

✓ 566

Shorebird Stomachs.

May

41) Phal. ful. - 3-VII-65 Voth Slough

Plecoptera Nymph - 5mm.

same as 26 - 4. Aug. 65?

✓ empty stomach

1 sm. *Priocera* lar.

1 sm. *Chironomus* lar.

42) Phal. ful. - 3-VII-65 Voth Slough.

4 (?) Trichoptera cases

✓ 1 lg. *Chironomus* lar.

43) Phal. ful. - 3-VII-65 Voth Slough

8 large *Priocera* lar

4 small *Priocera* lar

1 as *Cerobio*.

✓ 1 trichoptera case.

44) Phal. ful. - 3-VII-65 Voth slough

1 - Muscio lar - 10mm

1 sm. *Chironomus* lar.

few fragments of as. *Cerobio*.

45) C. pusillus - imm. 10-VIII-65 SN 456

✓ 10 sm. *Chironomus* lar.

1 spider

1 *Cerobio* as.

6 eggs - 1mm - ○ - brown - bluish or lens.

Hechen
✓ 1966

Shorebird Stomachs

4 May 46) C. pusillus - imm. 10-VIII-65 SU 457

49 Sm. Chironomid lar

4 spiders

13 mites

1 collembolan

1 as Carabid

May 47) C. alpina - 17-VIII-65 - SU 462

few small carabid parts - < 1.

Machea
✓ 1966

Shorebird stomachs

- 19 May 48) C. melanotos - ♂ 13 July, 1965 #2 SN 430
1 Chrysalina ad.
1 lg. Prionocera lar.
13 Chironomus lar.
7 Chironomus pupae. - large
34 Chironomus adults - small
1 spider
- 49) C. melanotos - 7 July, '65 - SN #2
14 lg. trichoptera lar.
1 sm. (old) Chironomus ad. (wings)
- 50) C. melanotos 7 July '65, SN #1
1 lg. Prionocera lar. - fresh
1 Muscio lar - 13mm - old
5 sm. Chironomus lar. - old
- 51) Phalaropus fulicarius - 20 Aug, '65, SN 466
1 Collembolan
3 sm. Trichoptera lar case
Copepods
mite eggs
lot of crap.

Meehan
✓ 1966

Stomachs

5 June

482

Barrow, Alaska

Calidris alpina - ad ♂ 56.0g.

Tipula lar - 20 mm - fresh, in lower
esophagus

2 fresh, 3 old Tipula lar.

sm. plant seeds

6 June

483

1st yr. ♀ Calidris alpina - 71.1g. - saved

7 Tipula lar. - all old.

1 ad. Carabid

? 1 large. (Dipteran) pupal case - prob. Tipulid.

484

ad. ♀ Calidris alpina - 63.9g.

1 old Tip. lar -

unidentifiable garbage.

485

ad ♂ Calidris alpina - 53.9g.

3 Tipula larvae - fresh (21, 17, 15 mm)

Tipula larvae old

3 large, 7 small

486

ad ♂ Calidris alpina - 57.7g.

8 small Tipula larvae - none fresh

7 June

489

ad ♂ Calidris pusillus - 26.8g

1 Collembolan

2 Muscio larvae - 8 mm.

8 small Chironomid lar

2 very small Chironomid lar.

3 small Trichoptera larvae - ca.

Machan
1966

Stomachs

8 June

Barrow, Alaska

♀ Vermivora celata - FAP 66-1

ad. ~~Dytiscid~~ Chrysomelidae

ad. Staphylinid

10 Spiders.

12 large Collembolans

2 mites

5 tenthredinid larvae

pr. Muscid wings

9 June

Barrow, Alaska

ad ♀ Calidris pusillus - 32.9 g. FAP 66-2

3 Soil nematodes

1 very small Chironomid larva
plant seeds.

much misc. organic material.

488 ad ♂ Calidris alpina - 56.7g. Footprints lake ridge

1 Muscid larva - 9mm

2 old Tipula larvae

489 ad ♀ Calidris alpina - 62.1g. Footprints lake ridge

1 Fresh Tipula lar - 22mm

9 old Tipula larvae - large (>20mm)

Muscid larva - 7mm.

pieces of Carabid ad - elytra

Maehren
1966

Stomachs

9 June

♀ Longspurs - Calcarius lapponicus

2) FAP -

most active ♀

1 muscio larva

490

ad ♀

Calidris alpina - 60.4g.

5 sm. Tipula larvae - old

remnants of Carabus adult

Lemmus molar

491

ad ♀

Calidris alpina 60.4g. Feeding obs. #027

Fresh large Tipula lar. in esophagus - 23mm

Fresh Tipula larva - 20mm

5 old (small?) Tipula larvae

Staphylinus larva

fragments of Carabus adult

✓

ad ♀

Calcarius lapponicus

b)

2 Muscio larva

4 small Chironomus larvae

1 Spider

1 small Tipula larva

fragments of Carabus adult.

plant seeds - several spp.

✓

ad ♀

Calcarius lapponicus

c)

2 Carabid adults

2 old Tipula larvae

Maehren
1966

Stomachs

- ✓ ♀ ad. Calcarius lapponicus
d) 15 Muscio larvae - ca. 12 mm.
Chrysolina larva
Collembolan
Fragments of ad. Carabio
unident. pupa case
2 "blobs" - seeds, (w/ Chrysolina)

10 June

- ✓ ♀ ad. Calcarius lapponicus
e) 4 Chironomus larvae - small, fresh.
3 " " " " , old.
1 Muscio larva
ad. Carabio
SEEDS - ca. 9.

- ♀ ad. Calcarius lapponicus
e) 2 Staphylinid larvae
1 Spider
3 Chironomus larvae - small
2 Muscio larvae
Fragments of Carabio adult.

11 June

- ✓ ad ♀ Arenaria interprex - 132.9g.
6 Lemmus molars + misc. Lemmus bones.
4 Staphylinid larvae (saw mouth parts of
one - definitely not Carabio)
1 Small Spider
2 Small Chironomus larvae

Macler
1966

Stomachs

Phalaropus fulicarius - FAP 66-3

Feeding obs. FAP-003 (11 June)

6 Small Tipula larva

53 Chironomid larvae - ca. 8 mm.

Pc. Muscid wing -

♀ Phalaropus fulicarius - FAP RP-1

Feeding obs. FAP 004 (11 June)

1 Staphylinid larva (w/ head)

Misc. plant and unidentifiable organic matter

ad ♂ Phalaropus fulicarius - FAP RP-2.

w/ ♀ FAP 004

2 Spiders

plant material, inc. SEEDS (ca. 10)

ad ♀ Phalaropus fulicarius - FAP RP-5

Feeding obs. SN 057

1 Chironomid larva - fresh - 9 mm

Pedecia hannai larva

Dytiscid larva

fragments of adult Carabid

ad ♂ Phalaropus fulicarius - FAP - RP-4

Feeding obs. SN 057

2 Chironomid larva - ca 9 mm

Moehren
1966

Stomachs

ad ♂ Phalaropus fulicarius - FAP RP-6

Feeding obs. SU 056

Prionocera larva

Staphylinid larva

2 Chironomid larvae -

Spider

2 Muscid larvae - 9mm

fragments of adult carabid
plant material.

ad ♀ Phalaropus fulicarius - FAP RP-7

Feeding obs. SU 056

3 Spiders

2 Spiders - Lycosidae

? Diptera Pupal Case

1 June

Calidris pusillus - FAP Cp-1

Feeding obs. FAP-005

2 Spiders

2 Chironomid larvae

Carabid adult fragments

1 Collembolan

Calidris pusillus - FAP Cp-2

Feeding obs. SU 059

2 Carabid adults

Spider

Staphylinid adult - fresh

Maehren
1966

FAP - CP-2 (cont)

2 Chironomid larva

small fragment of Chrysolina adult.

ad ♂ Calidris pusillus - FAP CP-3

Feeding obs. SM 059

few old fragments of Carabid adult

ad ♂ Calidris pusillus - FAP CP-4

Feeding obs. SM 058

Spider

Carabid adult

tipulid larva - either Priocera or Pedecia

ad ♂ Arenaria interpres - FAP Ai-1 (w/ ♀ SM 492)

Staphylinid larva - saved - v. fresh

v. few Carabid fragments

10 June

Barrow, Alaska

ad ♀ Calidris lapponicus

1 Muscid larva - 13mm.

2 Chironomid larvae

1 Spider

1 Chrysolina larva

1 staphylinid larva

Machin
1966

Stomachs

2) ad ♀ Calidris lapponicus
ad. Carabid

8 Staphylinid larvae
few fragments of Chrysoline adult
~~few fragments of carabid adult.~~

1) ad ♀ Calidris lapponicus
fragments of Chrysoline adult
3 spiders
staphylinid larva

13 June

Barrow, Alaska

ad ♂ Calidris pusillus FAP Cp-6 w/ FAP 006

2 large Prionocera larvae

1 Small Tipula larva

1 Staphylinid larva

72 Collembolans

10 Spiders

2 Carabid adults

1 Dytiscid adult

8 Chironomid larvae - small

ad ♀ Calidris pusillus - 32.6g. FAP Cp-5, FAP 006.

4 Small Tipula larvae - 3 < 10mm, 1: 13mm

1 Pedecia larva - 10mm.

2 Dytiscid larvae

1 Dytiscid adult

2 Staphylinid larvae

MacLean
1966

Stomachs

3 June

C. pusillus - cont.

2 adult Staphylinids

3 small Chironomid larvae

12 Spiders

13 Collembolans

fragments of adult Carabids

Lemmus molar

ad ♀ Calidris pusillus - 27.1g. FAP CP-7; SM 065

3 small Tipula larvae

1 Staphylinid larva

2 Muscid larvae

fragments of adult Carabids

1 Lemmus tooth

ad ♂ Calidris pusillus - 20.3g. FAP CP-8; SM 065

1 Small Tipula larva

5 adult Carabids

ad ♂ Calidris bairdii - 39.1g. FAP CB-1; SM 061

25 adult Carabids (heads).

1 adult Staphylinid

493 ad ♂ Calidris bairdii - 39.5g. ; SM 062

5 adult Carabids

Maclen
1966

Stomachs

✓
494 ad ♂ Calidris bairdii - 40.7g. no feeding obs.

4 Tenthredinio larvae

2 Small Tipula larvae

3 Muscio larvae: 6, 6, 8 mm.

2 ad Carabids

1 Spider

495 ad ♂ Calidris bairdii - 40.0g. SN 063

2 large Tipula larvae

1 small Tipula larva

1 Spider

1 Tenthredinio larva

3 Tenthredinio larvae - diff. instar or genus ^(same)

ad ♂ Arenaria interpres - FAP 21-2; FAP-007.

1 Small Tipula larva

2 Muscio larva

3 Sm. Chironomid larva

1 large Chironomid larva

1 Spider

1 ad. Staphylinid

v. few fragments of Chrysolina

15 June, ad ♀ Phalaropus fulicarius - FAP RP-9; SN 098

(same) 39 adult plecoptera (variable size) ^{plus fragments} of many more

Dytiscid adult

2 small Chironomid larvae.

Maclean
1966

Stomachs

ad ♂ Phalaropus fulicarius - FAP RP-10; SN 098

17 ad. Plecoptera plus fragments of more

1 ad. Dytiscid

Fr. Muscid wings

1 Staphylinid larva

1 Dytiscid larva

1 Empty Dipterous pupal case

ad ♂ Phalaropus fulicarius - FAP RP-11; SN 098

14 ad. Plecoptera plus fragments of more

Sm. Chironomid larva

ad ♀ Phalaropus fulicarius - FAP RP-8; SN 095

3 large Prionocera larvae

3 large Pedecia larvae

6 ad. Carabids (Pezom.)

✓ ad ♀ Calidris bairdii - FAP CB-2; SN 096

10 small Tipula larvae

2 large Tipula larvae

(Muscid?)

2 Unknown segmented larva - saved. cd. 11 mm.

3 ad. Carabids

2 ad Staphylinids

3 larval Staphylinids

Mae Lean
1966

Stomachs

✓
ad ♀ Calidris alpina - FAP Ca-1 ; 811 897

1 Small Tipula larva

1 Spider

19 June

Barrow, Alaska

ad Calidris pusillus

few fragments of adult Carabid

ad. Calidris pusillus

fragments of adult Carabid (1)

Staphylinid larva - (1)

ad. Calidris pusillus

1 Spider

4 very small Chironomid larvae

few fragments of Carabid adult.

ad ♂ Calidris melanotos - FAP C.m.-1 ; 608

1 fresh small Prionocera larva.

3 old Prionocera larva,

Spider

Ad. carabids (heads)

Collembolan

Unioens. Pupal case

ad ♀ C. melanotos x C. fuscicollis FAP 66-3.

2 Carabid adults + fragments

2 Staphylinid adult

3 Spiders

Maclean
1966

Stomachs

(cont) ad ♀ C. melanotos x C. fuscicollis
Lemmus bones

ad Calidris lapponicus

1 ad. Staphylinid

2 Spiders

2 Mites

x ad. Calidris lapponicus

Lemmus bones

no identifiable prey spp.

20 June

Barrow, Alaska

ad ♂ Calidris pusillus - FAP C.p.-12
no identifiable remains.

12 ad ♂ Calidris lapponicus - Trapline I-9.2-29.4g.
(t=10x6mm, fat moderate)

2 ad. Muscids

2 Large Tipula larvae

1 Small Prionocera larva

2 ad ♀ Calidris lapponicus - Trapline II-7.6.

Small Tipula larva

ad. ~~Chrysomelid~~ Chrysomelid + fragments
(larger)

2 Tenthredinid larva - 18mm. + extra heads

Maclean
1966

Stomachs

21 June

Barrow, Alaska

ad ♀ Phalaropus fulicarius - killed by Eskimo
kids. 4th egg in oviduct.

6 large Prionocera larvae

? 1 large ^{unident} ~~tipula~~ larva - cheek (saved)

1 large Chironomus
~~larva~~ larva - saved

Unident. Pupa case

ad ♀ Phalaropus fulicarius - 55.6g. 4th egg in
oviduct.

5 ad. Carabid heads.

ad ♀ Phalaropus fulicarius - 65.7g.

Small Trichoptera larva - woven type

9 ♂ Spiders

m ad Calcarius lapponicus - Trapline I-II.

✓ 2 Tipulid Pupae - prob. Tipula, by size.

7 adult Chrysolina

6 Spiders

fragments of old Tipulidae larvae

2 ad. Muscids (wings)

m ad Calcarius lapponicus - Trapline I-II.

✓ few fragments of adult Chrysolina
(stomach nearly empty)

Maclean
✓ 1966

Stomachs

ad. Calcarius lapponicus - Trapline I-II.
D Fragments of ad. Chrysolina (4 heads)
fragments of ad. Corabio
Muscio wings - maybe 3 pairs.

ad. Calcarius lapponicus - Trapline I-II.
P Fragments of ad. Chrysolina

22 June

Iktovik Lake, Barrow, Alaska

NU 144 ad. neuter Phalaropus fulicarius - 54.5g. SN-125 feeding

✓ Esophagus -

88 Chironomus larvae - 6-8mm, fresh.

Stomach -

251 Chironomus larvae - 6-8mm

twc 58 ad ♂ Calidris alpina (w/ eggs - SN 512) no feces obs

3 Spiders

1 Dytiscid larva

fragments of adult Corabio

twc 57 ad ♂ Calidris melanotos - 117.5g. Feeding obs. SN-122

✓

Ad ad Corabios (heads)

3 large Prionocera larvae - fresh

2 small Prionocera larvae - not so fresh

20 large Pedecia larvae

7 Dytiscid larvae

1 Spider

2 Muscio larvae

Maclen
1966

Stomachs

as ♂ Colinus melanotos - 101.1g. Feed obs. SN 120

t = 12x6 mm. Spec. to Earlham College.

2 Small Tipula larvae

1 Adult Dytiscid

1 Dytiscid larva

5 large Prionocera larva

3 Adult Carabid

4 large Tipula larvae

5 large ~~unidentified~~ larvae - saved

1 Small ~~unidentified~~ larva - saved

as ♂ Colinus Alpina - Feed obs. NU 325

Small Tipula larvae

Small larva, as unident. above

Muscio larvae

Unident. larva - large - as ♀ P.H., 21 June ^{saved}

fragments of adult Carabid

as ♀ Phalaropus fulicarius - 57.7g. Feed obs. SN 124

4th egg in oviduct.

2 large Prionocera larvae

1 spiders

2 small Chironomid larvae

4 ad. Carabid (heads)

1 large Peocia larva

Maclean
1966

Stomachs

as ♀ Calidris melanotos - 64.4g. SN-117
clutch completed, ovary regressed.
2 large Tipula larvae
3 small Tipula larvae
15 ad. Carabids (heads)
1 spider
1 larval head - as ♂ C.O. 22 June

as ♂ Calidris alpina - 52.1g. feeding obs. SN-116
6 small Tipula larvae
2 larval heads - as above
1 ad Carabid
6 Muscid larvae - 11mm
1 ad Dytiscid - head
2 ad. flying insect - 2 winged - saved

as ♀ Phalaropus fulicarius - 62.1g. feeding obs. SN 118
4 rupt. foll, ovary regressed.
esophagus - gastropod - saved
Stomach - 2 smaller gastropods + fragments
Muscid larva

25 June as ♂ Phalaropus fulicarius - trapline 3a-3b.
ca. 250 ^{small} ad. Chironomids - many fragments.

as ♀ Phalaropus fulicarius - trapline
ca. 175 ^{small} ~~200~~ ad. Chironomids.

Maches
1966

Stomachs

27 June as ♂ Calcarius lapponicus - + rapline

as. Chrysolina

9 spiders

37 Imm. SEEDS

as ♀ Calcarius lapponicus - trapline
nothing recognizable

as ♂ Calionis pusillus - trapline twc-63.

54 as. Carabids

1 as. Staphylinid

as ♂ Plectrophenax nivalis - 29.4g. t = 11x7mm. + rapline

8 Spiders

1 Ab. Chironomid

Empty pupal case - ca. 8mm

as ♀ Calcarius lapponicus - trapline. b.p. present.

3 Spiders



as Carabid

as ♂ Calcarius lapponicus - t = 9x5mm. Trapline

as. Chrysolina

8 Chironomid pupae

10 Spiders

= 6 muscid pupae { 6 pupal cases -  } saw 20
2 pupal cases - 



Machens
1966

Stomachs

27 June] ad ♂ Calcearius lapponicus - trapline
ad. Chrysolina
9 Imm. SEEDS.

29 June ad ♂ Calidris alpina - SM 160
SS. 3g. b.p. t = 7x4, formed
3 Dytiscid larvae - old
few fragments of carabid adult

ad ♀ Calidris melanotos - FAP C.P. -

3 Dytiscid larvae

= 5 Muscidae { 5 Pupal cases } may be opposite
3 Pupal cases } ends of one case?

1 July


Barrow, Alaska

518 ad ♂

Phalaropus fulicarius

2 large Chironomus adults

2 small Chironomus adults

1 larval head  - Dytiscid

2 small Priocera larvae

1 trichoptera larva - circular weave

ad ♂

Calidris melanotos - 106.4g. t = 5x2mm, for v. heavy

SM 163 ... & nothing fresh.

2 Pedecia larvae

2 Carabid adults

2 Spiders - large Tipula pupa

1 v. large ~~Chironomus~~ (2) adult - as

next stomach

MacKenzie
1966

Stomachs

✓
1 July] 517[✓] ad ♂

Calidris melanotos - SN 163

2 v. large ~~Chironomus~~ ^{Part of item 4} ~~adults~~ - saved

6 spiders - large

2 small Chironomus adults

1 unident. larval skin - saved [Tipula pupa?]

1 pupal case - saved

516 ad ♂

Calidris melanotos - SN 173

20 ad. Carabids (heads)

4 sm. Tipula larvae

1 Spider

1 large Chironomus pupa

>1? unident. larval skin - as item 4, above (saved) [Tipula pupa?]

June

Barrow, Alaska

514 ad ♂

Calidris pusillus

no feeding obs.

ad. Carabid

sm. Chironomus larva

unidentifiable organic muck.

July

515 ad ♀

Phalaropus fulicarius - SN 172

1 adult Dytiscid

1 tipulid pupa - saved

est. 200 Chironomus adults - TFG for good count

Maclennan
1966

Stomachs

2 July

Barrow, Alaska

as ♂ Calidris lapponicus - trap line

as. Chrysolina

2 Tipula pupae

fragments of Chironomus adults

4 July

Barrow, Alaska

as ♂ Calidris melanotos - 93.2g. $t = 10 \times 6 \text{ mm}$

nothing fresh - old fragments of Cerobis,
tipula wings.

520 as ♂ Calidris melanotos - 93.3g.

3 Tipula pupae (or <)

oval pupal cases (11) - ca. 2

510 as ♂ Calidris melanotos - 89.0g.

4 ~~3~~ large Pedecia larvae (?) (saved)

1 as. Crane fly (wings)

ca. 3 as Chironomus (wings)

ca. 2 as Muscis (wings)

523 as ♂ Calidris melanotos - 94.7g.

small Chironomus larva

fragments of oval pupal cases

[none of it very fresh.]

Maclean
1966

Stomachs

[4 July] 522 ad ♂ Calidris melanotos - 100.0g. SM 180
28 Tipula pupae + fragments
2 Staphylinid larvae
1 ad. Crane fly - wing
Pupel cases - 3 and 1 - note 2-pronged ^{SDW20}
1 ad Carabid - v. fresh
6⁺ Spiders
1 ~~Large~~ larva - ~~♂~~ ♀

5 July

Barrow, Alaska

521 ad ♀

Calidris melanotos - 66.7g.

1,000 Tipulid eggs - 1.5 mm. (SDW20)

4 ad. Tipulids - wings

2 Tipulid pupa

2 ad. Carabids

ad ♀ Phalaropus fulicarius - 67.0g. lg. fol. 1mm, far heavy
SM 187.

1 Tipula (?) Pupa

1 Muscid Pupa ↗

1 Chironomid Pupa

Dense organic matrix - probably [←] and
adults (?)

ad ♀ Phalaropus fulicarius - 67.2g. lg. fol. 1mm, far
moderate. SM 187.

Dense matrix of Chironomid pupae

Maehren
✓ 1966

Stomachs

8 July

Barrow, Alaska

524 ad ♀

Calidris pusillus

5 ad. Tipulids (wings)

Tipulid eggs (ca. 50)

525 ad ♂

Calidris pusillus

2 ad. Tipulids

1 ad. Dipteran - other

1 spider

fragments of ad. Carabid

tipulid eggs (ca. 100)

526 ad ♂

Calidris pusillus

1 Tipula pupa

6 ~~5~~ ad. tipulids (wings)

10+ smaller diptera (wings)

fragments of ad. Carabid

tipulid eggs (ca. 100)

527 ad ♂

Calidris pusillus

1 tipulid pupa

ca. 10 smaller diptera

528 ad ♂

Calidris fascicollis - SM 192

fragments of Tipulid wings - 1 beak
fragments of ad. Carabid

✓ Madsen
1966

Stomachs

8 July) ad ♂ Calidris melanotos - 89.5g. t = 13x7mm.

SN 193

5 Tipula pupae

3 Staphylinid larvae

4 Dytiscid larvae

1 Carabid adult

6 Tipulid adults

8 smaller Diptera

1 Muscic adults

Tipulid eggs - ca. 200

11 July

Barrow, Alaska

529 ad ♂ Calidris alpina

1 ad. Tipulid

2+ smaller ad. Diptera

Tipulid eggs - ca. 50

1 larva distal end ■■■■

12 July

Barrow, Alaska

531 juv. ♂ Calidris alpina - trapline

6 ad. Tipulids

ca. 20 smaller ad. Diptera

1 Spider

Tipulid eggs - ca. 50

1 large Muscic

Maclean
1966

Stomachs

13 July

Barrow, Alaska

532 juv. Calidris alpina - trapline IX - 5.6

6 ad. Tipulids.

6 Sm. ad. Diptera

4 Spiders

533 ad ♀ Calidris pusillus - trapline IX - 6.4

fragments of sm. Diptera

fragments of tipulid wing

tipulid eggs - ca. 10.

14 July

Barrow, Alaska

♀ Calidris alpina - 60.3g. SN 199.

1 ♀ ad. Tipula

1 larva eggs

ad ♀ Calidris alpina - 59.4g. SN 201

2 Dytiscid larvae

fragments of ad. Tipulid

535 ad ♂ Calidris bairdii - trapline IX - 9.6

7 ad. Tipulids + fragments.

(both large and Pedicia)

536 ad ♂ Calidris pusillus - trapline IX - 9.0

37 Chironomid larvae - sm.

2 Chironomid pupae - sm

1 ♀ Tipula adult

Maecher

1966

Stomachs

536

(cont)

1 ad. Tenthredinid

23 smaller ad. Dipterans

538

juv.

Arenaria interpres trapline IX-8.2.

10 Smaller diptera

1 ad. Carabid

fragments of ad. tipulid, inc. eggs.

16 July

Barrow, Alaska

juv. ♂

Calidris alpina - 36.7g. Trapline VII-8.6.

fragments of ad. Tipulids

fragments of smaller ad. Diptera

539

juv. ♀

Calidris alpina - 41.4g. trapline VII-8.0

1 ad. ♂ Tipula - v. fresh

11 ad. Tipulids (wing count) - both large & small.

Lemmus tooth and bones

6+ smaller Diptera

17 July

Barrow, Alaska

juv.

Calidris alpina - 38.8g. Trapline VII-5.0

2 ad. Tipulids (1 is ♀ Tipula)

3+ ad. Trichoptera

4+ sm. ad. Diptera

1 Chrysoline larva

MacLean
✓ 1966

Stomachs

19 July

Barrow, Alaska

juv. ♂

Calidris bairdii

PDB #533

10 + sm. adult diptera

♂ Pedicia (? - wings)

juv. ♀?

Calidris bairdii

- PDB #532

4 + sm. ad. diptera

ca. 50 Tipulid eggs - black.

✓ ad ♂

Calidris bairdii

- NAMU.

3 Chironomid larvae

1 empty tipulid pupa

sm. ad. Diptera - many fragments.

Tipulid eggs - ca. 40.

twc 72 ad ♂

Calidris bairdii

1 Dytiscid larva

ca. 10 Tipulid eggs

548 ad ♂

Calidris bairdii

Tipulid eggs - ca. 250

549 ad ♀

Calidris bairdii

Tipulid eggs - ca. 200

1 ad. Carabid

fragments of ad. tipulids

few fragments of sm. ad. diptera.

MacLean
1966

Stomachs

juv. Calidris bairdii - NU
Tipulid eggs - ca. 25

juv. Calidris bairdii - NU
Tipulid eggs - ca. 40

✓ juv. ♂ Calidris alpina - 30.6g. Trapline III-B3.6
1 Spider
10 Sm. ad. Diptera + many fragments
Lemming bones
fragments of (>1) ad. Tipulid
Tipulid eggs - ca. 100.
3± ad. Trichoptera (under wings)

juv. ♂ Calidris alpina - 31.0g. trapline III-B-3.6
Lemmus tooth
fragments of sm. Diptera (wings)
Tipulid eggs - ca. 50.

juv. ♀ Calidris pusillus - 25.0g - trapline III-B-2.6.
1 ad. Trichoptera
1 ♂ Pedicia
>1 Larger ad. Tipulid - wings
ad. Muscio (eye)
20± Sm. ad. Diptera
ca. 100 Tipulid eggs (orange. Pisocera?)

Machern
1966

Stomachs

22 July

Barrow, Alaska

juv.?

Calidris alpina - 19.1g. Trapline IIIA - 6.4.

♀ Tipula

Tipulid eggs - cd. 25

1 Spider

5+ sm. ad. Diptera

27 July

Barrow, Alaska

ad ♂

Calidris bairdii - 35.5g. t=2x1mm, far. mod.

Heavy molt. b.p.+.

2 (+?) Tipula larvae

1 fragments of ad. Carabid

1 ad. Muscid (wings)

2 Spiders

1 Tipulid egg

550 ad ♂

Calidris alpina -

ad. Carabid

3 Tipulid eggs

1 pr. wings - cd. 5mm

ad ♂

Phalaropus fulicarius - 50.5g, t=3x1mm,

far. mod., molt mod. b.p. -.

5 sm. Chironomid larvae

1 Chironomid adult

3 misc. small ad. Diptera (wings)

Maclean
✓ 1966

Stomachs

- [27 July] ♂ Phalaropus fulicarius - 44.0g. $t=5 \times 2$ mm,
b.p. + , fec mes, molt lighs.
2(?) B nail shells - v. small (2mm.)
fragments of insect legs?
- 21 July juv. ♀ Calidris alpina - 32.9g. trapline IVA-9.4
ad. ^{Hemiptera} ~~Diptera~~ in esophagus
ca. 20 tipulid eggs
- juv. ♀ Calidris alpina - 27.2g. trapline IVA-8.8
2 Tipulids - large wings
ca. 10 Plecoptera (wings)
ca. 10 Trichoptera
ca. 20 smaller ad. Diptera
2 ad. Carabids (heads)
ca. 75 (orange) tipulid eggs
- 29 July ♂ Barrow, Alaska
♂ Calidris pusillus - 22.8g, $t=2 \times 1$, b.p. - .
fragments of ad. Carabids
2 med. Chironomid larvae
- 552 ad ♀ Calidris alpina - 58.5g.
2 ad. Hemiptera -
fragments of ad. muscids (2 heads)
fragments of ad. Chironomids
fragments of ad. Carabids.

Machea
✓ 1966

Stomachs

[29 July]

ad ♂

Calidris alpina - 53.5g. t=2x1. b.p. reg.

5+ Muscids

3+ Ichneumonids

2 ad. Chironomids

1 Spider

2+ ad. Carabids

imm.
juv. ♂

Calidris alpina - 53.5g. t=2x1mm SM 211

4 spiders

16+ sm. ad. Diptera

3 Carabid adults

1+ Muscid adults

imm. ♂

Calidris alpina - 51.5g. t=2x1mm SM 209

20+ sm. ad. Diptera.

inc. 1 mosquito, 3 good Chironomids.

ad ♂

Phalaropus fulicarius - 58.6g. t=3x2mm

1 Dytiscid larva

2 ad. Carabids

very large quantity of unintelligible
insect debris. Looks like coleoptera

ad ♂

Phalaropus fulicarius - 55.8g. t=2x1, fat mod.

>100 sm. ad. diptera

2(?) Dytiscid larvae

MacLean
1966
✓

Stomachs

[29 July]

ad ♂

Phalaropus fulicarius - 53.5g. t=3x1, fat sandy
sm. ad. Dipterans - many fragments.

2 August

Barrow, Alaska

imm ♂

Calidris pusillus - 22.9g.

40 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 25.1g.

80 ± sm. Chironomus larvae

imm ♀

Calidris pusillus - 24.7g.

30 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 22.5g.

50 ± sm. Chironomus larvae.

PDEB 537 imm ♀

Calidris pusillus -

40 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 24.6g.

60 ± sm. Chironomus larvae

imm ♂

Calidris pusillus - 26.0g.

120 ± sm. Chironomus larvae

2 sm. ad. Diptera

Maelsa
✓ 1966

Stomachs

[2 August] imm ♀ Calidris pusillus - 27.8g.
15 Sm. Chironomus larvae

6 August

Barrow, Alaska

554 imm ♀

Calidris melanotos

15 Chironomus larvae (sm.)

2 Ichneumonids (a.s.)

555 imm ♀

Calidris melanotos

30 Sm. Chironomus larvae

1 Ichneumonid

1 Spider

556 imm ♂

Calidris melanotos

Trichoptera larvae

other, unidentifiable organic matter

10 August

Barrow, Alaska

557 imm ♀

Calidris melanotos

6 large Chironomus larvae
~~27 larvae~~

plant + misc. organic matter.

11 August 558 imm ♂

Calidris melanotos

40 large Chironomus larvae

MacKen
1966

Stomachs

13 August

Birnirk, Barrow, Alaska

560 imm ♂

Calidris alpina

5 large Chironomus larvae

12 August

Barrow, Alaska

563 imm ♂

Calidris melanotos - 62.8g. t = 2x1,

fat light. trapline X - 8.8

50 large Chironomus larvae

2 Trichoptera larvae

15 August

Barrow, Alaska

564 imm ♂

Tryngites subruficollis - 60.1g. SN 273

3 Spiders

5 ~~3~~ Tenthredinid larvae

1 ad. muscid

2 ad. Ichneumonids

1 Carabid ad.

imm ♂

Calidris melanotos - 67.7g

26 small Chironomus larvae

(but they are large small ones.)

1 ad. Staphylinid

5 mites!

Machens
✓ 1966

Stomachs

18 August

Barrow, Alaska

571 mm ♀

Pluvialis dominica - 153.3g. Fat heavy.

1 Tenthredinid larva

12+ Dytiscid larvae

1 ad. Carabid

1 ad. Ichneumonid (wing)

1 ad. Muscid (wing)

1 ad. Chironomid (wing)

20 August

Barrow, Alaska

565 mm ♂

Limnodromus scolopaceus - 104.5g.

5 large Chironomid larvae

3 ?

"

"

566 mm ♂

Limnodromus scolopaceus

1 large Chironomid larva

much plant material

imm

Limnodromus scolopaceus

2 large Chironomid larvae

1 ?

"

"

23 August

Barrow, Alaska

568 ad ♀

Calidris alpina - 61.0g. Trophic II-B

9 small Tipula larvae

fragments of ad. Carabid

Maclean
1966

Stamps

569 ad ♂

Calidris alpina

10 + small (?) Tipula larvae

5 large Chironomus larvae - old

31 August

Barrow, Alaska

imm ♂

Pluvialis dominica - 158.0g. for body.
SN 276.

39 + large Prionocera larvae

9 large Chironomus larvae

1 long, skinny annelid (?) - as seen.

18 + large Pedicia larvae

large quantity of mixed Prionocera +
Pedicia larval material.

imm

Calidris alpina - 62.3g.

13 = 159

✓ Machea

1966

Shorebird Stomachs

52) C. melanotos - ♂ - 11 July, 1965, #2 - SM 426

1 Prionocera pupa

1 Chrysoline lar.

1 Carabid adult - fresh

1 Carabid adult - parts

3 spider

Chironomid as-wing

Spilogona wing.

6 August

Uniat, Alaska

802 ♀

Clethrionomys rutilus

18.7g

122-26-17-12

803 ♂

Clethrionomys rutilus

18.1g

115-26-19-11 . Prep. by Don L. Beaver.

804 ♂ ad.

Passerella iliaca

39.9g

t = 2mm, far lighter, v. heavy molt

EAP 67-5 (Cm) 3-51g. feathers

Placed on dissecting

150 species

10 tentacled crabs

3 Diptera (1 on 1st, 2 on 2nd)

2,431 on other larvae

353 2 " "

15 Staphylinids

14 Brachymerids

57 on ♀ Hippids

285 on ♂ Hippids

475 on ♂ Perid

130 ♀ on Perid

511 753 - do. Calpene

308.8

5000

1.1000 - 0.1111 = 0.9889

3.2400
0.2400
3.5500

0.7962
8.2000
8.9962

3.4800
0.2400
3.7200

3.4800
0.2400
3.7200

8.0500

8.0500

8.0500

0.14181

0.5740

0.5010

I

II

III

IV

V

0.2400
0.2400
0.4800
0.4800
0.9600

0.2400
0.2400
0.4800
0.4800
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0.4800

Tip

Tip

Tip

Maclean
1967-
1968

Specimen Catalog

9 December 1 mi. S.E. of Pt. Isabel, Alameda County, Calif.

851 ♂ ad. Calioptila mauri $t=1\text{mm}$ 14.9g.

[Died of starvation in captivity.] 21.6/4.0/3.6

7-10 April,
1968

following collected by F.A. Pitelka at his home
Queens Rd., Berkeley, Alameda Co., Calif.

852 ♂ Pipilo fuscus 50.3g

853 ♂ Pipilo fuscus 54.6g

854 ♀ Pipilo fuscus 49.1g

855 ♀ Pipilo fuscus 51.8g

Used for plumage wt. and fat determinations.

24 April

Leslie Salt Co. Property,

856 [♂?] Calioptila alpina [$t=1.5\text{mm?}$] 54.5g

pre-nuptial molt ± complete. light fat.

36.6/5.3/4.1

857 ♂ C. alpina $t=3\text{mm}$. light fat. 53.4

pre-nuptial molt ± complete. 35.1/5.9/4.5

Used for feather wt. and fat determinations.

28 May

Eagle Summit, Mile 108 Steese Highway, Alaska

858 ♂ ad. Aphriza virgata $t=16\times 7$; fat light. 146.5g.

859 ♀ ad. Aphriza virgata ova 17, 8, 6, 5. 193.4g.

oviduct distended; fat moderate.

Macler
✓ 1966

Shorebird Stomachs

16 October

SM 458 juv. Calidris alpina - 15 August, 1965

1 ad. ♀ Tipula

1 wing - small muscio adult

1 wing - chironomid adult.

much unid. organic animal material

SM 444 - ad ♀ C. melanotos - (6) : 25 July, 1965

1 Prionocera larva - 18 mm.

2 ad. Dytiscids

2 Dytiscid larvae

Wings - muscio ?

SM 437 - ad ♀ C. alpina - 20 July, 1966

tipulid eggs - few

fragments of adult Carabid

fragments of adult tipulid

SM 442 - ad ♀ C. melanotos - (B) - 25 July, 1965

2 ad. Muscio

2 ad. ♀ tipulids (tipula ?) ± fresh

fragments of many ad. tipulids,
including many eggs.

3 ad. Hemiptera (salicidae)

~~3 ambrosia (muscio ?) saeco~~

1 Chrysolina fragment

1 ad. Carabid

Machean
1966

Shorebird Stomachs

✓
6 October

SN 446 ♀ Pluvialis dominica - (#1) : 25 July, 1965

esophagus - 1 ad. Chrysolina

stomach:

16 tipula larvae - large (::)

1 ad. Chrysolina

5 ad. Carabios

Several ad. tipulids, inc. many eggs

1 Scolioae - hemiptera

SN 448 ♂ P. dominica - 28 July, 1966

7+ large Prionocera larvae

1 ad. Plecoptera

1 ad. Chrysolina

fragments of adult tipulid

SN 449 ♀ P. dominica - 28 July, 1965

3 Pedicia larvae

20+ tipula (::) larvae (saved 1)

ad tipulid (wing)

SN 447 ♀ P. dominica - (#7) 25 July, 1965

8 & ad. Chrysolina

2 ad. Muscio

thick mixture of ad. Diptera parts
ad. Chironomids, tipulids, and eggs.

Maehren
1966
✓

Shorebird Stomachs

16 October

SN 433

♂ C. melanotos - I : 11 July, 1965

12 large Chironomid larvae

1 small Prionocera larva

fragments of ad. Carabid

SN 431

♂ C. melanotos - I : 13 July, 1965

10 large Chironomid pupae or adults

20 small Chironomid adults

30+ ~~small~~ ^{large} Chironomid larva

SN 428

ad. ♀ C. alpina - 11 July, 1965

5 tipulid (large) pupae -

2 large tipula larvae

2 small tipula larva

2 Carabid larvae

Spider (Lycosid)

SN 450

♀ P. dominica - 28 July, 1965

30+ large tipula larvae

2 Staphylinids

1 Spider (Lycosid)

ca. 5 ad. Tipulids

4 Dytiscid larva

Muscid wings

Maclean
1966

Shorebird Stomachs

16 October SM 478 Imm. Limnodromus scolopaceus (#3): 22 Aug '65.

ca. 40 small Chironomid larvae

SM 476 Imm. L. scolopaceus - 22 August, 1965

ca. 10 small Chironomid larvae

SM 470 Imm. L. scolopaceus - 20 August, 1965

3 Large Prionocera larvae

1 Small Prionocera larva

5 Pedicia larvae

1 Muscid larva

2 Small Chironomid larva

SM 468 Imm. L. scolopaceus - 20 August, 1965

2 large Prionocera larvae

SM 471 Imm. L. scolopaceus - 20 August, 1965

Small Muscid larva

small Chironomid larva

SM 438 ♂ Phalaropus fulicarius - 20 July, 1965

esophagus:

82 Chironomid adults

1 Muscid adult

stomach:

hopeless tangle of ca. 100 ad.
Chironomids.

Machean
1966
✓

Shorebird Stomachs

8 October

SN 445 ♂ C. alpina - ~~#4~~ (#4): 25 July, 1965
fragments of adult tipulis, inc. eggs.

RBH #1 C. alpina - 15 June, 1965
tipula pupa
fragments of ad. Carabio (1 ad.)
Spider (? sauro-asper SN 296)
old tipula larva.

SN 459 Imm. P. dominica - 13 August, 1965
1 ad. Chrysolina
3 ad. Carabios
2+ ad. Muscios
1 Chrysomelid larva
1 Carabio larva
fragments of adult tipulis, inc.
many eggs.

SN 451 Juv. C. alpina - 30 July, 1965
ca. 6 Trichoptera larvae
Lemmus tooth
fragments of adult Chrysolina

SN 432 ♀ C. melanotos - 11 July, 1965
2 Dytiscid adults
3+ tipula pupae
1 Muscid pupa
1 ~~fragments of~~ ad. Carabio

Maclean
✓ 1966

Shorebird Stomachs

18 October

SN 432 - cons

1 small mollusc - ca 2mm, coiled

2 spiders (as per SN 296)

SN 440 ♀ C. melanotos - (#8) : 25 July, 1965

4 ad. Chironomids + many fragments.

SN 445 ♂ C. melanotos - (#5) : 25 July, 1965

108+ ad. Plecoptera

mixture of Diptera wings -

ca. 100 flies - tipulids, Muscids
and Chironomids.

SN 427 ♂ C. alpina - 13 July, 1965

13 nematodes - 5-8mm

fragments of adult Carabid

SN 441 ♂ C. melanotos - (#3) : 25 July, 1965

many fragments of adult tipulids -
ca. 50 animals. those identifiable
are Tipula.

21 October

PDB 438

Wings of ad. Chironomids

legs of ad. tipulids, and wing fragments

Maehren
1966

Shorebird Stomachs

21 October

SN 439 - ♂ Phalaropus fulicarius - 20 July, 1965

esophagus:

5 ad. Plecoptera

9 ~~small~~ v. small (2-3 mm) ad. Dipterans

63 ad. Chironomids

Stomach:

tangle of many, many ad. Diptera -
mostly Chironomids.

(No definite evidence of tipulids)

SN 454 - ♂ P. fulicarius - 29 July, 1965

1 (+?) ad. tipulid

2 (+?) ad. Muscids

Many fragments - adult

Chironomids and other Diptera

SN 453 ♂ P. fulicarius - 29 July, 1965

fragments of adult Diptera,
inc. tipulid eggs.

2 Trichoptera larvae

SN 429 ♂ P. fulicarius - 13 July, 1965

3 Tipula pupae

1 Plecoptera adult

fragments of adult Diptera

Maechen
1966

Shorebird Stomachs

21 October

SM 475 Imm. P. fulicarius - 22 August, 1965:
45 + Small (ca. 8mm) Trichoptera larvae.

FAP - Phalaropus fulicarius - 3 July, 1965

Uoth Slough:

2 Dytiscid Aes.

5 large Prionocera larvae

1 large Chironomid larva

4 small Chironomid larvae

1 trichoptera larva

FAP - P. fulicarius - 3 July, 1965

1 large Prionocera larva

6+ Trichoptera larvae

2 Small Chironomid larvae

1 small Lycosid spider

FAP - P. fulicarius - 3 July, 1965

24 large Chironomid larvae

4 small Prionocera larvae

small Chironomid larvae -

too far gone to count - ca. 20

FAP

P. fulicarius - 3 July, 1965

4+ trichoptera larvae

1+ large Chironomid larva

Maelea
1966

Shorebird Stomachs

21 October

FAP

P. fulicarius - 3 July, 1965

22 large Priacma larvae

1 trichoptera larva

Maeesh
1966

Shorebird Stomachs

16 October

SN 379

2 tenthredinio larvae - ca. 7mm.

fragments of Chrysolina

3 bees - two-pronged mandibles. = Ichneumon

v. small wings

fragments of adult insects.

SN 380

5 large Chironomus larvae

12 small Chironomus larvae

SN 381

4 ~~3~~ Tenthredinio larvae

fragments of Chrysolina

1 small bee, as 379. Ichneumon?

fragments of tipulis wings.

Few fragments of ad. Cerabis.

SN 382

5 Small Chironomus larvae

SN 383

7 large Chironomus larvae

SN 384

fragments of adult Cerabis

1 ad. Staphylinus

Maclenn
1966

Shorebird Stomachs

16 October

SN 378

45 large Chironomid larvae
(giants, to 20 mm!)

SN 300

1 ad. Chironomus.

SN 317

2 tenthrionid larvae

4 heads, as 379. Note 2 prominent
median ocelli. = Ichneumonidae
also wings.

SN 314

many (ca. 25) s/o small Chironomid
larvae - too tangled to count.

1 tipulid egg.

SN 297

fragments of ad. tipulids, inc. eggs -
several animals.

1 small Chironomid larva.

SN 296

4 ad. Muscids

1 + 1 ♀ tipula, inc. eggs.

2 Spiders

1 ad. carabid

Machean
1966

Shorebird Stomachs

6 October

SN 296 (cont.)

1 ad. Plecoptera

8 October

RT 222 ♂ Tryngites subruficollis - 53.2g. 12 Aug., 1964

1 tenthredinid larva

2 Lycosid spiders

1 v. large collembolan

fragments of adult Chironomus.

RT 223 ♀ Limnodromus scolopaceus - 104.5g. 12 Aug., 1964

5+ (many) large Chironomus larvae

RT 224 ♀ imm. C. alpina - 53.4g. 12 August, 1964

trichoptera larvae - all fragments -

but = many larvae.

1 small Chironomus larva

RT 225 ♀ imm. C. alpina - 52.8g. 12 August, 1964

do fragments of large Chironomus larvae

1 trichoptera larva

RT 229 imm. C. pusillus - 22.7g. 12 August, 1964

25 small Chironomus larvae

RT 230 ♂ imm. C. pusillus - 22.1g. t=1x2mm; 12 Aug, 1964

60 small Chironomus larvae

1 trichoptera larva

Maclean
1966
✓

Shorebird Stomachs

18 October RT 231 Imm. C. fuscicollis - 35.0g. 12 August, 1984
2 large collembolans
15 small Chironomus larvae
1 unknown (sovere)

~~RT 224 ♀ imm. C. alpina 53.4g.
(sic 2, same number) 12 August, 1984~~

~~1 small Chironomus larva~~

1 October SM 346

1 ad. Ichneumonid
fragments of ad. Chrysoline
tentherosia larva

SM (343)

see
next
page

7 Small Chironomus larvae (ols)
2 large Chironomus larva
1 ad. tentherosia wing.

SM 345

1 + tentherosia larva
1 ad. Chironomus
several wings of ad. Ichneumonids
ca. 100 tipulis eggs

Maclean
1966

Shorebird Stomachs

21 October

SN 338

11 + Trichoptera larvae
1 small Chironomus larva.

SN 344

2 Muscio larvae - 9mm.
much plant material.

SN 343

> 1 Chironomus larva - small, old.
Collembolan

?
SN 252

2 ad. Pedicia
1 ad. Staphylinid
1 ad. Hemipteran (old)
2 large spiders
1 small spider
2 small ad. Diptera

~~SN 260~~

SN 260

3 (+ many fragments) sm. ad. diptera.

SN 263

Fragments of ad. diptera
ca. 150 + pupa eggs.

Maclera
1966
✓

Shorebird Stomachs

21 October

SN 262

fragments of as. Diptera, inc.
tipulid eggs.

SN 261

1 ♀ as. Tipula
1 ♀ as. Pedicia
2 unknown Crane flies.
4 + Small as. diptera
plus. misc. diptera fragments.

SN 248

many fragments of as. Diptera -
unintelligible stew.
includes tipulid eggs

20 October

SN 267

3+ Muscid pupae
fragments of as. tipulids, inc. eggs.

SN 264

fragments of as. tipulids, inc. eggs.
1 fragment of trichoptera larva

SN 265

as. Staphylinid
Fragments of as. Chironomids
Fragments of as. tipulids, inc. eggs.

Moehren
1966

Shorebird Stomachs

22 October

SN 266

fragments of *ao. tipulid*, inc. eggs (ca. 100)

12+ 183 ♀ *Limnodromus scolopaceus* - 127.5g, lg. tot 4mm, ~~for~~ mod
5 July, 1964
4+ large *Priocera* larvae
2 meso larvae - ca. 10mm.
1 *ao. Carabid*
30+ large *Chironomid* larvae (obs)

23 October

SN 270 ~~P~~ *Tip*

ao. Staphylinid - fresh
unident. fragments of wings

SN 269

many fragments of *ao. Tipulid*, inc. eggs.
2 ~~fragments of~~ *ao. Carabids* (heads)

SN 271

fragments of *ao. Tipulid*, inc. eggs.
hemus bone

SN 272

soup of *tipulid* fragments, inc. eggs.

SN 273

ao. Schneumonia
2 *ao. tipula* - ♂ + ♀ ~~post.~~ ^{post.} ~~emb.~~ ^{emb.}
ao. Carabid - fresh

Maehs
1966

Shorebird Stomachs

23 October

SM 277 (cont.)

fragments of as. Tipulis, inc. eggs.

SM 278

few v. sb fragments of as. tipulis,
inc. ca. 15 eggs.

few v. sb carabid fragments.

SM 279

ca. 160 Tipulis eggs

hess - as. Ichneumonid (?)

small fragment of as. carabid

SM 280

fragments of as. Tipulis, inc. eggs.

RT 184 as ♂ C. fuscicollis, 39.3g, t=4x7mm, far light.

6 July,
1964

2 large Chironomid larvae

fragments of as Tipulis, inc. eggs.
inc. ♀.

SM 283

4+ as. Tipulis, plus many frags, eggs

2 Carabid larvae

1+ as. Plecoptera

fragments of few as. Chironomids

Maeda
1966

Shorebird Stomachs

23 October

SN 284

2+ ad. tipulids (fragments, eggs)
1 ad. Muscio
fragments of ad. Ceratid
1 ad. Chironomid

SN 285

few fragments of ad. tipulid, inc. ca. 15 eggs

SN 286

ad tipulid parts, inc. eggs.
fragments of adult ceratid

SN 287

many fragments of ad. tipulid, inc. eggs
1 ad. Muscio
fragments of ad Chironomid.

SN 288

fragments of ad. tipulid, inc eggs.
2 ad. Ichneumonids (heads)
fragments of ad. Ceratid

Macler
✓ 1966

Shorebird Stomachs

28 October SN 289

fragments of ao. tipulid, inc. eggs

SN 290

2+ ao. tipula (♀, ?), inc. eggs.
43+ ao. Chironomus
fragments of ao. Chrysoline

SN 292

fragments of ao. tipulid - inc. at least
2 batches of eggs (some dark, some light)
∴ 2 aos.
1 ao. Carabid - head

SN 293

4 ao. Chrysoline
1 ao. Carabid
2+ ao. Muscid
1 Spider actually > 2.
at least 2 ao. tipulids, w/ eggs.
1 ao. Ichneumonid

SN 294

3 ao. Chrysoline
1 Spider
Lemmus teeth and bones
2 ao. Carabids

Maclean
1966

Shorebird Stomachs

28 October SM 294 (cont)

many as Tipulids, inc. eggs.

6+ as Muscids

1 large Priocera larva

2 unis. abdomens - saved

SM 322

7100 small as. Chironomids

SM 323

3 Trichoptera larvae - fresh

12 Trichoptera larvae - old

4 Muscid larvae - ca. 12 mm.

large chironomid larva

10 large plant seeds - orange.

remnants of old Priocera larva

SM 326

1 wing of v. small Chironomus as.

1 v. large Collembolan

3+ as. Ichneumonids - small

SM 328

1 ~~2~~ large as. Carabid - fresh

2+ as. Ichneumonids

1 large spider

2+ tenthredinid larvae

2 Carabid adults - older

Maclean
✓ 1966

Shorebird Stomachs

28 October

SN 329

1 Chrysolina larva
fragments of Chrysolina adult.
3 ~~2~~ Tenthredinid larva
3+ as Ichneumonids
1 as. Carabid

SN 330

1+ fragments of as. Chrysolina
1+ frag. of as. Carabid
4+ as. Ichneumonids

SN 331

1 as. Dytiscid
ca. 10 (do) large Chironomid larvae.

SN 332

10 Trichoptera larvae
ca. 25+ large (?) Chironomid larvae

SN 333

Small spider
fragments of as. Carabid
ca. 20 large Chironomid larvae

Maehren
1966

Shorebird Stomachs

28 October

SN 334

15 trichoptera larvae
6+ large Chironomus larvae
several small Chironomus larvae

SN 335

cd. 20 large Chironomus larvae

SN 336

14+ Trichoptera larvae
3 large Chironomus larvae
cd. 20 plant seeds 1-1.5 mm.

SN 337

9+ Trichoptera larvae
cd. 20 (cd.) large Chironomus larvae

30 October

1964

trapline sample:

001

Tipulis eggs - several ages

frag. of as. Tipulis

3 as. Schremonis - heads

002

9+ small as. Diptera (Chironomus)
(sev.) frag. of as. Tipulis, inc. eggs.
1 as. Schremonis - heads.

Maclean
1966

Shorebird Stomachs

[1964 Trapline]

30 October 003

3+ Large ad. Chironomus
1 ad. Ichneumonius
frags. of ad. Tipulis, inc. eggs.

004

1 ad. Muscia - large
ca 50+ ad. Chironomus - small
Tipulis eggs.

005

40+ ad. Chironomus - small.
fragments of ad. Tipulis, inc. eggs.

006

3 Trichoptera larvae
ad. Chironomus - 10+ many fragments
frags. of Tipulis ad, inc. eggs.

026

- C. melanotos - VII; 7.9; 19 July. 33.5g.
all too old to identify.

MacLean
1966

Shorebird Stomachs

(1964 trapline)

1 November 007

Esophagus: 1 ad Muscio
1 ad Chironomus
2 ad Ichneumonius
Stomach: 2 ad. Muscids
5 ad. Chironomus
5+ ad. Ichneumonius
tipulis eggs (aas.?)
many fragments of ad. Diptera

009

2
2 ad. Chironomus
3 do trichoptera
tipulis eggs

010

1 ad. Muscio
2 ad. Chironomus
1 v. small ad. Diptera
1 spider
1 ad. Tipulis

011

14+ ad. Chironomus + do fragments
1 trichoptera larva

Maechen
1966

Shorebird Stomachs

[1964 trapline]

1 November

012

10+ many small ad. Chironomids

1 ad. Muscio

ca. 100 small orange eggs or seeds - 1 mm.

(saved a few)

fragments of larger wings

013

empty

014

5+ sm. ad. Chironomids

2 Collembolans

1 ad. Muscio

misc. fragments of adult pterygotes.

2 November

015

fragments of ad. Tipulids, w/ our eggs

1 ad. Muscio

1 ad. Chironomid

016

fragments of ad. Tipulids, w/ our eggs

fragment of ad Muscio wing

Maclenn
1966

Shorebird Homocels

[1964 trapline]

2 November 017

3 ad. Trichoptera

3 ad. Muscios

2+ ad. Tipulids - fragments, w/ few eggs.

018

1 Spider

2 ad. Ichneumonids

1 sm. ad. Staphylinid

1 ad. Muscio - wings

few tipulid eggs.

019

ca. 10 do trichoptera larvae

020

1 fresh gravid ♀ Tipula

10+ ad. Ichneumonids

8 ad. Chironomids

6 ad. Muscios - large

1 ad. Tenthredinid

10 November 021

10+ do trichoptera larvae

few do Tipulid eggs

Macler
1966-67

Shorebird Stomachs

[1984 trapline]

10 November 022

3 spiders

1 ad. Staphylinid

1+ ad. Muscid

1 tenthredinid larva

fragments of several ad. tipulids.

includes both large and small

(Pedicia ?) eggs, in equal numbers.

2+ ad. Ichneumonids

023

1+ ad. Muscid

1+ ad. Ichneumonid

fragments of ad. tipulid.

024

few ad. tipulid eggs

025

frag. of adult Chrysobothris

frag. of adult tipulid.

* 26 has zero

13 January 027

3 trichoptera larvae

frags. of ad. Chironomid

frags. of ad. tipulids, inc. eggs

2+ ad. Muscid + frags.

Maclean
1967

Shorebird Stomachs

[1964 trapline]

15 January

028

Calidris melanotos

3 ad. Muscids

1 ad. Tipula

10+ ad. Ichnumonius

2+ ad. Chironomus

2 spiders

1 ad. trichoptera

+ many ad. diptera fragments.

031

C. alpina

1 lemmus molar

030

ca. 10 ad. Trichoptera

1 ad. Muscid

1 ad. Ichnumonius

029

C. melanotos

6 ad. Muscids

ca. 12 ad. trichoptera

7 trichoptera larvae

1 ad. ♂ Prionocera

16 January

032

C. alpina

too old - soup of ad. diptera parts.

Maehren
1967

Shorebird Stomachs

[1964 trap line]

16 January

033

C. alpina

2+ ad. Tipulids, inc. eggs

3+ ad. Muscids

1 ad. Carabid

5 Spiders

034

C. melanotos

frags. of ad. Chrysoline

frags of ad. Carabid

2+ ad. Tipulids, inc. eggs.

soup - mostly ad. Diptera.

035

C. melanotos

tipulid eggs - at least two batches -
total of ca. 75.

036

C. melanotos

T.F.G. - nothing recognizable

037

C. melanotos

ditto

038

C. melanotos

fragment of hemmes tooth

ca. 100 tipulid eggs (prob. 2 batches -
some newer, larger.)

Machean
1967

Shoreline Stacks

[1964 trapline]

16 January

039

C. melanotos

1 tipula pupa

2+ as. Chironomios

2+ as. Muscio

2+ as. Tipulios, inc. ca. 100 eggs.

040

C. melanotos

2 as. Muscids

1 as. Trichoptera

1 as. Carabid

3 Trichoptera larvae

ca. 100 tipulid eggs.

042

C. melanotos

5+ as. Muscids

5+ trichoptera larva

3+ as. Chironomios

fragments of as. tipulid, inc. 100+ eggs.

043

C. melanotos

2+ as. tipulid, inc. ca. 150 eggs.

2+ as Chironomios

1+ as. Trichoptera

044

C. melanotos

5+ as. Muscids

1 spider

2+ as. tipulid, inc. 150 ± eggs.

Maehren
1967

Shorebird Stomachs

[1964 traplines]

16 January

045

26.4 g.

3+ ad. tipulids, inc. ca. 80 eggs.

1+ ad. Musciv

3 ad. Ichneumonids

1 ad. Carabid

046

C. melanotos

2+ ad. Musciv

1+ many ad. tipulids - inc. ca. 50 eggs

Lemmus tooth

2+ ad. Ichneumonids

1 ad. trichoptera

047

C. melanotos

6+ ad. Musciv

2 ad. tipulids, inc. ca. 50 eggs.

1 ad. trichoptera

1 frag. of ad. Carabid

30 small trichoptera larvae - sb

4 ad. Chironomids

048

C. melanotos

ca. 6 ad. tipulids, inc. ca. 100 eggs.

wing of ad. Ichneumonid

1 spider

Mochean
1967

Shorebird Stomachs

[1964 traplines]
~~2 traps~~

17 January

049

C. melanotos

2 ad. Muscivora

2+ ad. Tipula - many frags, ca. 150 eggs

2 hemus molars

5 ad. Ichneumonius

1 frag. of ad. Carabid

050

C. melanotos

5+ ad. Muscivora

2 trichoptera larvae

4+ ad. trichoptera

frags. of ad. tipulid, inc. ca. 200 eggs.

051

C. melanotos

9 ad. Muscivora

3 ad. Chironomus - fresh

4+ ad. tipulids - old - inc. ca. 20 eggs

1 spider

2+ ad. Ichneumonius

052

C. melanotos

2 ad. Muscivora

frags. of ad. tipulid, inc. ca. 50 eggs.

053

C. alpina

absolute nothing!

Maclean
1967

C. alpina - stomachs

✓
10 June

705 SN :

2 Tipula larvae

? unident. large pupa - prob. Hymenoptera

706 SN :

3 Tipula larvae

1 ad. Staphylinus

unident material - as above

12 June

SN 713 :

6 Pedicia larvae

1 Prionocera larva

1 Tipula larva

1 ad. Ichneumonius (chalcid)

1 ad. Carabus

SN 714 :

8 fresh Pedicia larvae

(2 in esophagus)

7 other Tipula larvae

1 Musciv larva

1 Carabus larva

16 July

FAP C.a. 67-7 :

(juv. - trapline II - 6.6)

bone fragments

{ ad. Tipulids, inc. eggs

{ ad. Nematocera

soup - can't count. prob. more Tipulids.

(appear to be Tipula).

Maclaren
1967

C. pusillus - stomachs

✓

18 June

SN 716

Lemmus bore

40(ca.) Chironomus larvae

Mar Lee
1967

C. pusillus - Stomachs

28 June

sn 745

:

30

sm. Chironomid larvae

15

sm. ad. Diptera

3

Collembolan

frags. of ad Carabid

Maclean
1967

C. bairdii - stomachs

26 June

SN 742 :

1 ad Ceratobio

6 July

FAP 679 :

16 + many frags - ad. Chironomus

frag. of ad. Ceratobio

1 Muscio pupa

ad tipulid - eggs.

✓ Maelen

1967

C. melanotos - Stomachs

8 June

SN 701 :

32 ~~ad.~~ Tipula larvae

1 Tenthredinid larva - 14 mm

2 Muscid larvae - 10 mm

SN 702 :

8 tipula larvae

1 Muscid larva

1 sm. Chironomid larva

SN 703 :

15 tipula larva

3+ Prionocera larva

3 sm. Chironomid larvae - 10 mm

8 Muscid larvae - cd. 11 mm.

1 Mite

18 June

SN 718: ♀

7 Tipula larvae

SN 719: ♂

10 Tipula larvae

3 ad. Carabids

SN 720: ♂

6 tipula larvae (fresh - 16 mm)

19 Pezicia larvae

3 Spiders

7 ad. Carabids

3 Muscid pupae

Machem
1967

C. melanotos - stomachs

SN 721: ♂
2 lar. Prionocera - 29mm.
4 lar. Tipula
ca. 26 lar. Pedicia
1 ad. Plecopteran
3 Muscio pupae cased

17 June SN 722:
15 Tipula larvae
3 Pedicia larvae
1 Spiner
1 Prionocera larva

20 June SN 725:
6 Pedicia larvae
2 Tipula larvae
1 ad. Carabid

21 June SN 726:
1 Prionocera larva
ca. 20 Chironomus larvae - old,
(prob. large veg)

SN 727:
71 sm. ad. Dipterans
1 Prionocera larva
2 old Chironomus larvae
(prob. large veg)

SN 728:
8 Tipula larvae

SN 729:
1 Muscio pupa
(remainder beyond recognition)

Maehren
1967

C. melanotos - stomachs

[21 June]

SN 730:

30+ Pedicia larvae

2 Muscio pupae

5+ lg. (resp.) Chironomus larvae

24 June

SN 734:

4 Prionocera larvae

3 Pedicia larvae

2 Tipula larvae

2 ad. Carabio

2 ad. Muscios (?)

SN 735:

3 Muscio pupae

1 ad. Staphylinio

1 Spider

1 Tipula pupa

ca. 20 Pedicia head capsules

SN 736:

1 ad. Staphylinio } fresh

1 Tipula larva } fresh

3 Muscio pupae

ca. 10 quite old Pedicia head capsules.

SN 737:

2 ad Muscios (wings)

25 June

SN 738:

1 Spider

2 ad. Carabios

1 Tipula pupa

Wardman
1967

C. melanotos

SN 739:

5 Pedicia larvae

1 Muscio pupa

2 spiders

1 m. Carabid

30 June

SN 748:

13 Prionocera larvae

2 Spiders

4 Muscio larvae

1 Chironomid larva

SN 749:

4 Prionocera larvae

many Lemmus bones

1 Spider

1 Chironomid larva

✓
Machin
1967

C. alba - stomachs

8 June

SN 704 :

11 tipula larva

3 Muscio larva

Maclean
1967

T. subruficollis - stomachs

✓

18 June

FAP 67-1 : trapline I-II

1 Tipula larvae

1 Tenthredinid larva

4 Spiders

lemming tooth and bones

1 July

FAP 67-3 :

1 Caddis adult

many ad. Chironomids

fewer ad. Tipulids - inc. eggs.

(eggs are small - prob.

Pedicia)

1 (+?) ad. Hymenopteran - looks
like Ichneumonid.

FAP 67-4 :

25%
ratio

{ 5 ad. Chironomids

{ 1 ad. Tipulids (Pedicia?)

inc. eggs.

July

FAP 67-5 :

2 fresh Tipula pupae

2 do " pupae

3+ ad. Tenthredinids

1 ♂ Pedicia ad.

73+ ad. Chironomids

1 Spider

Tipulid eggs, and frags.
of adults.

Machan
1967

T. subruficollis - stomachs

5 July

FAP 67-6 :

3+ Tipula (?) pupae
1 ad ♀ tipula, w/ eggs.
8+ ad. Chironomus
1 Spider
1 ad. Staphylinus
frags, inc. ad. tipulids

FAP 67-7 :

3 Tipula pupae
1 Muscio pupa
7+ ad. tenthredinios
6+ ad. tipula
1 ad. Muscio

FAP 67-8 :

fragments { ad. Carabid
ad. tipulid, inc.
few eggs.
ad. tenthredinio
Spider

Maclen
1967

P. fulvicornis - stomachs

10 June

SN 707:

- 1 Chironomid larva
- 1 sm. spider
- 1 sm. Muscid larva

SN 708:

- 3 Pedicia ~~Muscid~~ larvae - 12mm
- 1 Annelid - >17mm.

SN 709:

- 7+ Pedicia ~~Muscid~~ larva
- ~~1 sm. Tipula larva~~

SN 710:

- 3 fresh Pedicia larvae
- 3 Muscid larvae
- other other larval material.

711:

- 23 Pedicia larvae - ca. 16mm
- 1 Tipula larva
- 3 Prionocera larva - large

SN 712:

- 1 l. Prionocera larva
- 1 Tipula larva - sm.
- 3 Pedicia larvae

12 June

SN 715:

- 2 Muscid larvae
- 1 ad Carabid

17 June

SN 723: ♀

Esophagus:

- 3 Spiders
- 1 Chironomid larva

Mackay
1967

F. fulicarius - stomach

SN 723 (cont)

Stomach:

- 19 large red Chironomids
(some v. fresh + in lower
esophagus)
3 sm. Chironomids
fragments of mollusk shell

25 June

SN 740

:

4+

large red Chironomids

ca 10

as. Diptera - wings.

Lemmus bone

SN 741

:

11

large red Chironomids

1

as. Chrysalis

Lemmus tooth + misc. bones.

30 June

SN 746:

ooops -

SEE Pl. dominica

~~10~~

~~Spiders - large~~

~~46~~

~~v. large, fresh Primordia larvae~~

~~56~~

~~Pesicid larvae~~

~~1~~

~~Annelid~~

~~3~~

~~as. Chironomids~~

~~1~~

~~Sm. Tipula larva~~

✓
Machens

1967

P. dominica - stomachs

18 June

SN 717:

8 Prionocera larvae

4 ad. Carabids

2 Tipula larvae

Lemmus bone

1 ad. Muscid

24 June

SN 733:

44+ Prionocera larvae

1 Prionocera pupa

1 Tipula larva

7 Pedicia larvae

2 Muscid larvae

1 Dytiscid Adult

28 June

SN 743:

8 Prionocera larvae

fresh and giant!

1 Spider

25+ Pedicia larvae

1 Annelid

1 ad. Chironomid

SN 744:

15 Pedicia larvae

1 Muscid larva

4 Prionocera larvae

2 lg. Chironomid larvae

1 ad. Chrysoline

✓
Haelew
1967

P. dominica - Stomachs

30 June

SN 746 :

10 large Spiders

46 v. large Prionocera

larvae - some fresh

5 Pedicia larvae

1 Tipula larva - sm.

3 l. ad. Chironomids

1 annelid

SN 747 :

esophagus -

13 Prionocera larvae

20 - 32 mm.

5 Pedicia larvae

Stomach -

43 Prionocera larvae

8 Pedicia larvae

6 July

SN 750 :

1 ~~Prionocera~~ Prionocera larva

Maheen
1968

Stomachs - collected 1967

AP C.m. 67-15: ✓

5 Prionocera larvae - large
ca. 30 fresh + many old sm. Chironomus l.

AP C. 67-3: ✓

soup of ao. tipulidae, inc. eggs.
[looks like mostly tipula.
black eggs v. numerous.]

AP C.m. 67-14: ✓

9+ Prionocera larvae - not too fresh.
3+ larval Dytiscidae
3 Brachycera pupae
several sm. Chironomus larvae - old
several ao. Brachycera - wings.

A.P. C.a. 67-1 ✓

(18 July)

soup of ao. Diptera - looks like
mostly smaller spp. of nematocera-
Chironomidae, some later.
(no tipulid eggs visible.)

F.A.P. 67-1 ✓

soup of ao. Diptera - mostly tipulidae,
inc. yellow eggs.
1 Brachyceran pupa

FAP 67-2 ✓

3++ ao. trichoptera
♂ ao. tipula
soup of ao. insect parts.
ao. Brachyceran
trichoptera larva

Mochar
1968

Stomachs - collected 1967

FAP 67-3: ca. 9 med. Prionocera larvae - old

most →
abundant

ad. ♂ Pedicia, ad ♀ Pedicia

ad. ♀ Prionocera

1 ad. tenthredinid

1 large lycosid spider

1 Brachycera pupa

ad. ♀ Tipula - w/ black eggs.

[NOTE: Predominately ad. Tipulidae - esp. Pedicia]

FAP 67-4:

thick stew of ad. tipulidae - primarily (all?)
Tipula

few v. old Prionocera larvae

FAP 67-5:

1 ad. ♀ Tipula w/ black eggs.

thick stew of ad. insects - 1

think mostly Tipula.

1 Spider

1+ Brachycera

FAP 67-6:

mass of fresh ad. Tipula - both
black and (fewer) yellow eggs.

frags. of ad. Cerabio

FAP 67-7:

1+ ad. Brachycera

→ ad. insect material - mostly Tipulidae,
Tipula.

1+ ad. Chironomus

Maclera
1968
✓

Stomachs - collected 1967

FAP 67-8 :

Stew of ad. Tipulidae - I think Tipula
inc. many eggs - or less 1 ♀ Tipula

FAP 67-12 :

Tipula stew - inc. eggs.

FAP 67-13 :

much: ad. tipulidae, w/ egg.
1 spider
1 ad. Carabid head

Maclera
1968

Stomachs - collected 1967

SM 758:

1 tipula larva (ob)
mostly frags. of ad. tipulids, inc. eggs.
frags. of ad chironomids (few)
1 Spioer
1+ ad. Ichneumonids - 3mm long.

759:

♀ ad. tipula
1 ad. Hymenopteran
several ad. Brachycera (wings)
several ad. tipulidae - inc. eggs.

757

6 fresh Pedicia larvae (11-cc. 17mm) + many ob
1 Prionocera larva ob
2 Brachycera larvae - 10mm
ad. (?) Plecoptera
2+ tipula larvae ob
ad. Brachycera
ad. tipulidae - inc. eggs.
misc. ad. Diptera - much.

[note: tremendous diversity, but Pedicia larvae
prob. most important.]

FAP C.m. 67-16✓

2 sm. Chironomids larva
several Trichoptera larvae

FAP C.m. 67-2✓
(18 July)

frags. of ad. tipulids - inc. eggs.

Machens
1968

Stomachs

4 June

871 ♂ ad

C. alpina

esophagus - 2 fresh Tipula larvae:

27, 18 mm.

stomach - 11 Tipula larvae

1 Stephylinis (?) larva

(head capsule v. flat w/
large clypeus, large
mandibles).

1 Arachnid (w/ hard,
dentate exoskeleton)

872 ♀ ad.

C. alpina

2 + Lemmus teeth

3 + frags. of bone

873 ♀ 1st year

C. alpina

1 Lemmus tooth

2 frags. Lemmus bone

28 June

924 ♂ ad.

C. bairdii

9 Tipula larvae - ca. 18-20 mm

29 June

927 ♂ ad.

C. bairdii

4 Tipula larvae

Maclean

✓ 1968

Stomachs

959

♀ as. tipula

2 ♂ as tipula

2 as. Muscoid

✓ 4 trichoptera larvae

many frags. of as. muscoid & sm. as. Diptera

Machin
1968

Stomachs - collected 1968

- (ca. 25) (ca. 225 - slow)
- SN 936: ca. 250 Chironomus pupae & adults
1 Brachycera pupa
- 899: 7 Brachycera larvae - ca. 9mm.
1 trichoptera larva
→ 6 large (>18mm) tipula larvae
- 898: 2 Brachycera larvae - ca. 8mm.
→ 5 tipula larvae - large (ca. 20mm)
1 Lycosid spider
1 ao. staphylinid.
- 894: 2 Carabid larvae
2 do Pedicis larva
→ 4 tipula larvae - (16-20mm)
4 sm. Chironomus larvae
- 957: stew of ao. tipula, inc. many eggs.
- 923: zero, but for few frags. of ao. Carabid.
- 920: nearly zero; frags of ao. Carabid
- 916: nearly zero -
1 Brachycera pupa
ca. 8 sm Chironomus larvae - v. do
frags. of shell of some marine mollusk.

Maehren
1968

Stomachs - collected 1968

SN 924 :

2 Lemmus teeth + 16 misc. bones! +
small fragments.
frags. of ad. carabid.

919 :

1 Lemmus tooth; sm. frags. of bone,
1 large bone frag.

942 :

4 ~~3~~ Spiders + fragments
10+ large red Chironomid larvae
2 Tipula larvae
1 ad. Carabid
1 Brachyera larva

874 :

8+ Tipula larvae - large
6+ Pesicig larvae - > 15mm
1+ ad. Carabid
2 Brachyera larvae - 10mm

1003 :

soup of ad. tipulidae, inc. many eggs.
also sm. ad. Nematocera - can't
tell proportions, but prob. more ~~Tip~~
tipulidae

965 :

tangle of v. sb. sm. chironomid larvae
tipulis eggs, + frags. of ad. tipulis.
ad. Hymenopteran (wing)

Machens
1968

Stomachs - collected 1968

SM 967:

1 ad. Brachycera

1 sm. ad. Nematoxera

most imp.

± fresh. →

ca. 75 large red chironomid larvae

875:

Lemmus teeth and bones

2 Carabid larvae

few frags. of ad. carabid

v. old Tipula larvae

867:

1 Tipula larva - > 25mm.

frags. of Lemmus bone

frags. of ad. carabid - > 1.

866

ca. 10 plant seeds (too many of the
same kind and too fresh for
accidental ingestion. must have
been purposive.)

[no Lemmus material.]

884:

frags. of ad. carabid

Lemmus bones

883:

1 Ad. Tenthredinid

1 Ad. Carabid

1 Ad. Staphylinid

1 Brachycera larva - 14mm

1 Lycosid spider

1 Tipula larva - 25mm

} very
fresh

cont. over

March
1968

Stomachs - collected 1968

883 - cont.

Diversity of very fresh material
indicates that last feeding bout was
highly opportunistic.

Other material:

6 large Tipula larvae

108+ Pericia larvae - large - > 15mm

3 spiders

4 ad. tenthrionidae

frags. of ad. Corabio

882 :

frags. of shell of marine mollusk.

frags. of ad. Corabio.

(no Lemmus material)

914 :

many Lemmus bones and teeth

few frags. of shell of marine mollusk.
tin foil!

(no recognizable food items)

879 :

1 fresh brachyura larva - 12mm

4 large Tipula larvae

1 Chironomus larva - fresh - 8mm.

ca. 10

"

"

- slow

868 :

2 Brachyura larvae - 10mm

1 old Tipula larva

1 Brachyura pupa

frags. of ad. Corabio

Maehra
1968

Stomachs - collected 1968

863:

1 do Tipula larva
ca. 8 do Pedicia larvae

862:

3 fresh Brachycera larvae - 8 spec.
7 Tipula larvae
few frags. of Lemmus bone
frags. of as. Carabio
5 orange SEEDS.

861:

98 Tipula larvae - large
3 Pedicia larvae - large, obese.
1 Prionocera larva - large
frags. of as. Carabio
1 do. Brachycera larva

940:

1 as. Chrysomelid - fresh
6 Prionocera larvae
1 large Chironomid larva
10 Spiders
3 Sm. as. Nematocera
2 Brachycera pupae
much plant material - could
resp. trichoptera larvae
frags. of as. Carabio.

946

scup of as. Tipulidae - larger spp.
(long wings - may be Prionocera.)

Maecher
1968

Stomachs - collected 1968

SM 947 : thick stew of as. tipulidae -
— looks like larger spp.

956 : as ↗

955 : as ↗
1 as. Dytiscid

951 : stew of as. tipulidae (mostly)
sm. as. nematocera

950 : mostly as. tipulidae
some sm. as. nematocera
(these are fresher.)

905 : → 10 fresh Pedicia larvae (13-16mm)
15+ sh Pedicia larvae
3 Spiders
1 trichoptera larva
frags. of as. Carabid.
frags. of as. Tenthredinid

904 : 10 large Prionocera larvae
1 Pedicia larva
Spider
2 as. Dytiscids
Brachycera pupa
Brachycera larva

Maclean
1968

Stomachs - collected 1968

SN 903:

- 2 Tipula larvae
- 2 Prionocera larvae
- ca 20 Pedicia larva
- 2 Brachyera larvae
- 3 Chironomus larvae - small
- 1 Carabid larva
- 2 Brachyera pupae - small
- 7 Spiders
- 1 ad. Carabid

911:

- 100+ Pedicia larvae (14-18mm) ^{ca. 60 of these fresh.}
- 1 Prionocera larva (ca. 15mm)
- 11 Spiders
- 7 ad. Carabids (heads)

912:

- 28 + large (> 13mm) Pedicia larvae
- 3 Spiders
- 1 Brachyera pupa

918:

- 1 Tipula larva
- Carabid ad.
- ca. 10 old Pedicia larvae (only head capsules remain.)

941

- 4 Prionocera larvae - old.
- ca. 20 Pedicia larvae - old
- 3 ad. Carabids
- (cont. over) ²⁰ ca. ~~15~~ 8m. Chironomus larvae - mostly old

Maehen
1968

Stomachs - collected 1968

941 - cons

1 ad. Dytiscid
ca. 10 large chironomid larvae - v. sb.

939:

6 + Prionocera larva - sb - large

13 spiders

frag. of ad. tipulid, inc. few eggs.
few sm. chironomid larvae - v. sb.

948:

Stew of ad diptera:

tipulidae, inc. eggs. (inc. many Pesicia)

sm. ad. nematocera

2 Brachycera pupae

1 Spider

949

Stew of ad diptera. mostly tipulidae ^{larger sp. tipulid?}

2 ++ ad. Brachycera

1 Brachycera pupa

952:

ad. Tipulidae - mostly tipula

few frags. of ad. hymenoptera

900:

1 v. fresh ad. Carabid

9 large Prionocera larvae

2 large Pesicia larvae

1 Brachycera larva

Maechen
1968

Stomachs - collected 1968

SN 901:

13 large-giant Prionocera larvae
1 + trichoptera larva
5 ad. Carabids
? Pedicia larvae - 5 (head capsules)
1 ad. hymenopteran
1 Spider

902:

6 large Prionocera larvae
4 Pedicia larvae - older
2 ad. Carabids

944:

frags. of ad. Tipulidae, inc. eggs.
frags. of ad. Carabid
1 Spider

945:

1 Tipula pupa
→ Tipula adults - primarily
Prionocera ad.

913

~~913~~

Lemmus teeth and bones - many.
14 large Prionocera larvae
2 spiders
frags. of ad. Carabid

910:

most
imp. →

1 ad Carabid - v. fresh
ca. 15 Pedicia larvae - just head
capsules - v. slp.

Maeha
1968

Stomachs - collected 1968

811 909:

- 7 Pedicia larvae 13mm. fresh.
- 1 ad. Carabid
- 1 sm. Chironomid larva
- few sm. bone fragments

908:

- 11+ Prionocera larvae
- 10+ Pedicia larvae (another 10 heads)
- 2 ad. Carabids
- 4 Chironomid larvae - sm.

906:

- 1 fresh Prionocera larva - 32mm.
- 3 obs Prionocera
- 72+ Pedicia larvae
- 2 ad. Carabids
- 2 Brachycera larva
- 4* Chironomid larva - sm.
- 32 Carabid larvae

1060:

- 15 Chironomid larvae - large
- 3+ trichoptera larvae

996:

- 4+ large Chironomid larvae
- 20 sm. Chironomid larvae - obs.
- much plant material

994:

- 60 sm. Chironomid larvae

✓
Maches
1968

Stomachs - collected 1968

811 990:

ca. 25 sm Prionocera larvae
10 sm. Chironomus larvae
ca 6 trichoptera larvae
10 Daphnia Ephippia

989:

many trichoptera larvae - most impt.
1 Brachycera pupa
few sm. Chironomus larvae
few sm. Prionocera larvae

988:

50 large Chironomus larvae
15 Daphnia Ephippia

907:

9 fresh Pedicia larvae - all > 17 mm
35 older Pedicia larvae - large
3 do Prionocera larvae

897:

2 Spiders
25 Pedicia larvae
50 large Chironomus larvae - older
10 sm. Chironomus larvae
bags of ad. Corabio

896:

25 Pedicia larvae
1 Tipula larva - large
1 Spider
4 Brachycera larvae - do.

March
1968

Stomachs - collected 1968

81893:

3 Pedicia larvae (12, 14, 16mm)

Lemmus teeth and bones - many

1 ad. Ceratops

ca 5 brachycera pupae

ca. 300 sm. Chironomid larvae

892:

Lemmus bones - many

78 ad. Ceratops

2 Ceratops larvae

ca. 25 sm. Chironomid larvae

3+ obs. Pedicia larvae

1 Brachycera pupa

891:

Lemmus teeth and bones

most conspicuous { 6 Ceratops larvae - fresh

10 Ceratops adults - 2 fresh

15 obs. Pedicia larvae

35 sm. Chironomid larvae - obs.

890:

2 Brachycera pupae

25 obs. sm. Chironomid larvae

bags. of ad. Ceratops

bags. of Pedicia larvae: heads caps.

889

3 v. fresh Pedicia larvae (19, 19, 17mm)

20 obs. Pedicia larvae

2 l. Tipula larvae

5 ad. Ceratops

Maclera
1968

Stomachs - collected 1968

84889 - CONT.

8 ~~5~~ Cerabio larvae

ca. 20 sm. Chironomus larvae - do

887:

frags of (several) ad. Cerabios

886:

3 Spiders

3 ad. Cerabios

10 Tipula larvae - med to large

885:

nearly empty -

1 Brachycera pupa

frags. of Tipula larva

881

12 + do Pedicia larvae

3 sm. Chironomus larvae - do

frags. of ad. Cerabio

much plant material.

880

2 ad. Cerabios

6 spiders

3 Priocera larvae

1 ~~ad.~~ Brachycera pupa

few Pedicia larvae - do (head caps.)

15 sm Chironomus larvae

2+ trichoptera larvae

1 ad. tenthrionidae

Maeha
1968

Stomachs collected 1968

SN 878 :

3 + Pedicia larvae

frags. of Prionocera larva - v. old.

ca. 25 v. old sm. Chironomid larvae

2 ~~Lygus~~ Lymphiid spiders.

9 orange SEEDS.

frags of as. carabid

877:

10 Pedicia larvae

3 Brachyura larvae

1 Carabid larva

15 sm. Chironomid larvae

1 Lycosid spider

frags. of as. carabid

876:

20+ Pedicia larvae

1 Tipula larva

10 sm. Chironomid larvae - fresh + 20 old

Lycosid spider

870:

nearly empty:

1 Carabid larva (head)

869:

²³
~~23~~ large Prionocera larvae

8 Pedicia larvae - 2 v. fresh (13, 17mm)

1 Lemmus bone - head of femur

10 sm. Chironomid larvae

6 SEEDS



Mochee
1968

Stomachs - collected 1968

811 865:

10 Tipula larvae
5 ad. Carabids
1 Lycosid spider
1 Brachycera larva
1 Smallish (ca. 10 mm) Pedicia larva

864:

1 fresh giant Tipula larva. 30mm
(may be bloated - it's immatures!)
4 Pedicia larvae
6 sm. Chironomid larvae
6 bees
Frag of ad. Carabid

860:

4 Tipula larvae
5+ Pedicia larvae
5 sm. Chironomid larvae
2 Lycosid spiders
Frag. ad. Carabid
1 Brachycera pupa

PIPG - ad ♂ C. melanotos 24 July, 1968. 107.3g injected

> 1 ad. Brachycera
ca. 250+ sm. Chironomid larvae

Maehen
1968

Stomachs - collected 1968

811 997:

nothing

968:

frags. of as + tipulidae - mostly eggs.

895:

1 Prionocera larva
2 collembolans
4 as. Staphylinids (1 v. small)
1 as. carabid
6 Spiders (Lycosid)
2+ tenthredinid larvae

976:

1 Prionocera larva
1 as. Brachycera
1 Brachycera larva

1004:

1 large, fresh anostracan
2 obov \nearrow (manisibles)
5 fresh + ? obo large, red chironomid l.
1 trichoptera larva

[note: now that I have finally seen a fresh anostracan in a stomach, I know that some of the unidentified fragments in the past were manisibles of these.]

991:

9 large orange SEEDS
9 (ob) large red chironomid larvae
frags. of Pezomachus larvae (few)

Maches
1968

Stomachs - collected 1968

sn 998 :

3+ trichoptera larvae

928:

4 ~~8~~ Prionocera pupae (3 v. large, 1 much smaller.)

1 ♂ ad. Prionocera

1 Brachycera larva (8mm)

1 Lycosid spider

1 Prionocera larva

note:

2 v. large Prionocera pupae
are in precisely the same stage of
development (length of wing rudiments =) and
same degree of digestion - ∴ taken together.

926

9 Pedicia larvae

2 Brachycera larvae - large

17 Brachycera pupae - 15 ♂ + 2 ♀

2 Prionocera (?) Pupae

2 Lycosid spiders

930:

4+ Prionocera pupae

2 Brachycera pupa

ca. 8 Pedicia larva - old (head caps.)

938

3 fresh + 8 old Prionocera larvae

2 Brachycera larvae

Lycosid spiders

cont.

frag. of ad. Carabid - 2 heads

Stomachs - collected 1968

938 cont : frags. of ad. tipulis
(inc. black eggs.)

937: 14 ± fresh Lycosid spider
1 ad. Carabid
1 ad. tenthrionid
35+ sm. ad. nematocera
3 Prionocera larvae - ob

943: 3 Dytiscid adults - 1+ fresh, 2 obs
1+ Prionocera larvae - ob

981: mass of plant fibers
Daphnia ephippia
v. small anostracan

929: 7 Lycosid spiders
25 Brachycera pupae
3 Pedicia larvae

953: Unintelligible stew of ad. insects
(Diptera) [no tipulis eggs - ∴ prob. sm nem.]
1 ad. Carabid

917: ∅

983: 25+ ad. Ichneumonids (mostly heads)
1 Lycosid spider

✓ Macher
1968

Stomachs - collected 1968

811 982:

10+ trichoptera larvae
25+ Chironomus larvae - small.

974:

1 sm. chironomus larva!

999:

4 tenthréonid larvae
2+ ad. Ichneumonids
1 Lycosid spider
frags. of ad. Carabid

993:

2 Lycosid spiders
tipulid eggs
2+ tenthréonid larva
frags. of ad. Carabid

979:

frags. of ad. diptera, inc. tipulidae,
Brachycera (more in recognizable frags.)

992:

20 sm. Chironomus larvae
? trichoptera larvae (cuttings)

995:

250 sm. Chironomus larvae
(small type, but ca. 9-10 mm long)

888

7 Lycosid spiders
1 Brachycera larva
2+ Staphylinid adults
frags. Carabid ad.

Moche
1968

Stomachs - collected 1968

SM 935 : ca. 20+ sm. Chironomus larvae
frags. of sm. ad. Nematocera

1005 : ca. 12 Trichoptera larvae
1 ad. Brachycera

1006 : mostly sm. ad. Nematocera
1 ad. Carabid

934 : mostly sm. ad. Nematocera
12 pupae " - fresh
larvae " - do

the following 4 stomachs belong to juvenile C. alpinus
taken 18 July, 1968 at trapline I - 2.6, 2.8,
3.2, and 3.4. Weights: 28.6, 29.4, 31.7,
34.7 grams (not inj.)

a) several ad Hymenoptera (Ichneumonidae)
→ frags. of ad. Tipulidae

b) v. large sm. ad. Nematocera
frags. of sm. ad. Nematocera
fewer frags of ad. tipulidae

c) v. fresh ad. ♀ Tipula
frags. of ad. tipulidae,
sm. ad. diptera - Nematocera

Maeha
1968

Stomachs - collected 1968

u. C. alpina

Electro 18

ely-trapline I.

d)

u. fresh ♂ as. tipula

→ frags. of as. tipulidae

"

sm. as Nematocera.

1007 :

3 sm

933 :

→ many sm. as. nematocera
pupal "

960 :

tipulid eggs.

1 trichoptera larva

985 :

250 + sm. Chironomid larvae - fresh.

984 :

→ 500+ as. Hymenoptera + frags.

frags. of as. Brachycera

frags. of as. tipulidae

frags. of as. Ceratobis

966 :

fresh as. ♀ Tipula

frag. of as. ceratobis

973 :

sm. as. nematocera - old frags.

961 :

2 hemius teeth

frags. of as. tipulidae

Maehen
1968

Stomachs - collected 1968

84 962 :

10 Trichoptera adults

3+ ad. Brachycera

1 Lycosid spider

sev. frags. sm. ad. nematocera.

963 :

frags. of ad. tipulidae, other
ad. insects.

964 :

1 ad. Carabid

1 ad. Tipula

975 :

frags. of ad. insects

971 :

♂ ad. Pedicia

Lemmus tooth

ad. Trichoptera

ad. Brachycera

ad. Tipula

larva Trichoptera

972 :

stew of ad. Diptera

MacLean
✓ 1968

Stomachs - collected 1967

SM 850

13 Sm. Chironomid larvae
3 trichoptera larvae

849

ca. 100 Chironomid larvae - small.

839

frag. of ad. Chrysolina
9 ♂ + tenthredinid larvae (head capsules)
1 ad. ~~tenthredinid~~ Ichneumonid
1 ad. Braconid

844

1 Prionocera larva - old.

854

1 ad. Ichneumonid
ca. 30 Chironomid larvae
1 Pedicia larva

843

nothing recognizable

838

2 large Chironomid larvae

✓ Maheen
1968

Stomachs - collected 1967

841

frags. of ad. Carabid
(few parasitic nematodes)

842

nothing recognizable

846

✓ Spider

~~tenthredinid larva~~

ca. 10 v. large chironomid larvae

(might be larva of unident. tipulid??) [don't think so.]

20 ± large chironomid larvae

848

1 fresh tipula larva - 27mm +

2 fresh tenthredinid larvae

20 older tipula larvae

4 older tenthredinid larva

2 large ad. Ichneumonids

847

5+ v. large Chironomid larvae (as 846)

10+ l. Chironomid larvae.

Maclean
1968

Stomachs - collected 1967

✓

848

1 large Prionocera larva
15+ small Chironomus larvae

835

1 fresh tenthredinid larva
1 fresh ad. Carabid
9 Tipula larvae
2 tenthredinid larva

836

50+ large red Chironomus larvae

837

150+ large Chironomus larvae
(includes some very large.)

840

1 Trichoptera larva
frags. of ad. Carabid

829

frags. of ad. Carabid

825

4 Tipula larvae

Machean
1968

Stomachs - collected 1967

833

10 fresh small Chironomid larvae
ca. 40 doer " " "
1 Pedicia larva (head capsule)

831

ca. 20? do large Chironomid larvae

832

nothing recognizable

827

2 Pedicia larvae
several trichoptera larvae

826

2 ad. Carabids
8+ Tipula larvae

830

frags. of ad. Carabid
Carabid larva

two 105

5+ Tipula larvae
2 ad. Carabids
1 Carabid larva

Maclean
1968

Stomachs - collected 1967

SN 816

ca. 100 large to v. large Chironomus larvae
(some w/ v. large heads - total l. to 18mm)

813

ca. ~~25~~³⁰ Chironomus larvae
1 old Tipula larva
frags. of as. Ceratob
12 mites

812

ca. 100 large Chironomus larvae
(some v. large - as SN 816)

823

several trichoptera larvae
ca. 35 large red Chironomus

822

ca. 15 old Chironomus larvae - sm?
1 parasitic nematode

815

ca. 35 l. to v.l. Chironomus larvae
1 parasitic nematode

818

ca. 20 l. and v.l. Chironomus larvae
(cont.) frags. of as. Ceratob

Machan
1968

Stomachs - collected 1967

818 (cont.) 3 parasitic nematodes

814

5 mites

few old chironomid larvae - sm?

817

Anostraca soup (red mess - recognizable fragments.)

819

[esophagus: 15 v. large Chironomid larvae
stomach: ca 50 more of the same
2 (?) trichoptera larvae
→ these ca. 12 mm.

809

6 fresh + 20 old Chironomid larvae - sm.
1 parasitic nematode

807

(Lake
Machan)

esophagus: 4 sm. Chironomid larvae
stomach: ca. 30 more of the same
4 mites

806

ca 40 sm. Chironomid larvae
5 mites

Machan
1968
✓

Stomachs- collected 1967

803

5 Tipula larvae
1 ad. Ceratobis

799

ca. 35 sm. Chironomus larvae

802

1 large Muscis larva
1 ad. Tipulis (wing)
ca. 10 Chironomus larvae
trichoptera larvae

808

5 v. large Chironomus larvae
~~48~~ sm. chironomus larvae
1 parasitic nematode

800

7 v. large Chironomus larvae
? also small " "
1 parasitic nematode

804

3 Tipula larva
1 ad ceratobis
Lycosid spider
frag. of ad. Tipulis wing

Maclean
1968

Stomachs - collected 1967

805

19 lg. Tipula larvae
1 ad. Hymenopteran - tenthrasinio?
1 Pedicia larva
1 Tenthrasinio larva
ca. 5. ad tipulids - wings
frags. of ad. Carabid

779

ca. 30 small Chironomid larvae
1 collembolan
1 ad. Chironomid

792

100+ sm. Chironomid larvae

797

esophagus: 8 sm. Chironomid larvae
stomach: 25 more of 1,

796

esophagus: 15 sm. Chironomid larvae
stomach: 50 more

791

1 large Prionocera larva
5 fresh Chironomid larvae - 6mm.
15 old " " "

Maclean
1968

Stomachs - collected 1967

788

nothing recognizable

794

40 small Chironomid larvae

801

ca. 100 Chironomid larvae - 9mm.

798

15 fresh + ca. 20 do Chironomid larvae - 9mm.

795

Esophagus: 6 Chironomid larvae - 9mm
stomach: ca. ¹⁰⁰~~5~~ more " " "

785

ca. 40 + sm. Chironomid larvae
frag. of ad. Tipulid wing

790

3+ ad. Hymenoptera (heads)
frag. of ad. Tipulid wing
1 ad. Carabid
1 do Tipula larva

Maclean
1968

Stomachs - collected 1967

786

ca. 10 Trichoptera larvae
1 large spider
1 Chironomus larvae
1 small spider
frag. of ad. Tipulid wing

787

1 Carabid larva

789

4 ad. Ichneumonids (wing count)
1 spider
1 v. old Pedicia larva

775

ca. 50 Chironomus larvae - 6-7mm

778

ca. ~~40~~⁵⁰ sm. ad. dipterans - sensu Chironomidae
1 large ad. Brachyceran
ca. 50 sm Chironomus larvae - 7-8mm

782

ca. 25 Chironomus larvae - 7mm
1 sm. ad. diptera
1 + ad. Tipulid - wings

Maclean
1968

Stomachs - collected 1967

784

esophagus: Prionocera larva - 27mm

stomach: 1 Prionocera larva

ca. 100+ Chironomid larvae - 8mm

~~ad. tipulid wings~~

1 ad. Muscid

1 sm. ad. Diptera

783

2+ trichoptera larvae

1 ad Muscid - wing

780

2 sm. ad. diptera

ca. 25 sm. chironomid larvae

4 mites

781

1 sm. ad. Diptera

4+ ad. Hymenoptera (Chalcids)

1+ trichoptera larva

776

20 Chironomid larvae - 6-8mm

1 " " - 10 mm

Maclachlan
1968

Stomachs - collected 1967

773

15+ Tipula larvae
1 Chrysoline larva
1 ad. Chrysoline
tipulis adults - lots, inc. eggs.

777

5+ sm. ad. diptera
25+ sm. Chironomid larvae

774

frags. of ad. tipulids, inc. eggs.
(note: both black and orange eggs.
Are orange sloer, or could they be
Priocera? Check this.)

763

ca. 40+ Chironomid larvae - 9mm - 10mm

768

11 Tipula larvae (one = 22mm)
1 Lycosid spider
2 ad. Carabids
1 ad. Muscio
1 Pericid larva

MacLean
1968

Stomachs - collected 1967

764

ca. 40+ Chironomus larvae - 7mm - 9mm
ao. Muscis (wing)
Tipulis eggs - ca. 20. (ao.?)
sm. ao. Diptera (wings)

770

ao. ♀ Tipula + other ao. tipulids
frag. of ao. carabid
2 Dytiscid larvae
(note: these appear v. fragile -
probably easily lost.)

771

26+ Pedicia larvae
~~5~~ Tipula larvae
ao. tipulids, inc. eggs (few)

762

ca. 40 Chironomus larvae - 7-8mm
ao. Chironomus
several (?) v. large Chironomus larvae
ca. 8 trichoptera larvae
frag. of ao. tipulid

✓
Machens
1968

Stomachs - collected 1967

772

1+ Pedicia larvae : 12-13mm (\pm fresh) 1
12+ Tipula larvae
Salix rotundifolia leaves

766

15 Parasitic nematodes - lower esophagus
1 Lycosia spioer
1 ad. Muscio
ad. tipulis frags, inc. ca. 150 eggs.
1 ad. Corabio

760

frags. of ad. tipulis, inc. ca. 20 eggs.

765

2+ Prionocera larva
ca. 100 Chironomid larvae : 8-9mm
10++ 8m. ad. diptera
ad. tipulis ♂ + frags.
trichoptera larva

Maheba
✓ 1968

Stomachs - collected 1967

SM 752: primarily { some ♀♀ too, but more ♂♂
ca. 20 ♂ ad. tipula - fresh
1 Prionocera larva - large
1 Pezicia larva - old
1 Brachycera larva
2 pieces of bone (avian cervical vertebrae)

SM 751: ad. tipula 2 ♂ + 4 ♀ ++
1 Prionocera larva (35mm)
most imp. → 27 tipula larvae (large - > 15mm)
13 ad. Carabids
23 Dytiscio larvae
1 Spider

SM 753 many ad. tipula (many ♀♀)
1 tipula larva
frag. of ad. Carabid

Maclean
1968

✓
11 August no SN 953 : heavy fat. Cut skin of neck circumferentially around neck, then along dorsal length of neck to level of leading edge of wing. then again circumferentially, connecting leading edge of each wing with anterior point of carina. Removed skin with all noticeable fat from cervical region. Careful to leave pectoral fat pads, which are quite distinct: white, while cervical fat is yellow. There is a dorsal cervical deposit; took this with the cervical region.

t = 4.5 mm

✓
no SN 937 : there are 2 dorsal cervical fat deposits, lying longitudinally along either side of the neck. these remain with the carcass, and seem different in texture from the cervical fat deposit. kept these with the body, as did the deep interfurcular fat, which is white like the pectoral fat pads. moderate fat; t = 13 x 6 mm

✓
no SN 929 : moderate fat; left testis broken, right testis 10 x 6 mm.

✓
no SN 928 : wet weight of a.f.d. > 20 g. light fat; t = 11 x 7 mm.

Maclean
1968

11 August

✓ SM 943 : very heavy, advanced molt. New feathers erupted from sheath.

Part of the fat which came off with neck skin does not appear to be associated with the c.f.o. *per se*.

Heavy fat; $t = 6 \times 3 \text{ mm}$

100

✓ SM 938 : Advanced molt
fat light; $t = 10 \times 5 \text{ mm}$.

12 August

✓ SM 930 : advanced molt. fat v. heavy; $t = 5 \times 2.5 \text{ mm}$.

c.f.o. *per se* nearly gone, however fat from interfurcular region has spread over skin and come away with neck skin. Can not completely delineate c.f.o.

100

✓ SM 926 : $t = 9 \times 5 \text{ mm}$; heavy fat. limits of c.f.o. again unclear - extra fat included w/ skin.

100

✓ SM 981 : Heavy molt - new feathers erupted from sheaths. took cervical skin separately, as above. lg. fat. 1 mm ; moderate fat.

Macler
1968

27 September

✓ all birds oven dried at 50° C.

✓ SM 910 : $t = 12 \times 7$ mm; fat very light.

✓ 996 : no c.f.o. . heavy deposit of white, cakey fat in interfurcular region - some of this comes off with the skin.
Heavy fat; $t = 2 \times 1$ mm.

✓ 902 : fat very light; $t = 12 \times 7$ mm.

✓ 994 : $t = 2 \times 1$ mm; fat light

✓ 989 : ♀ imm.; ova < 1 mm; fat very light.

1 October ✓ 988 : ~~moderate~~ Heavy fat; t. shot

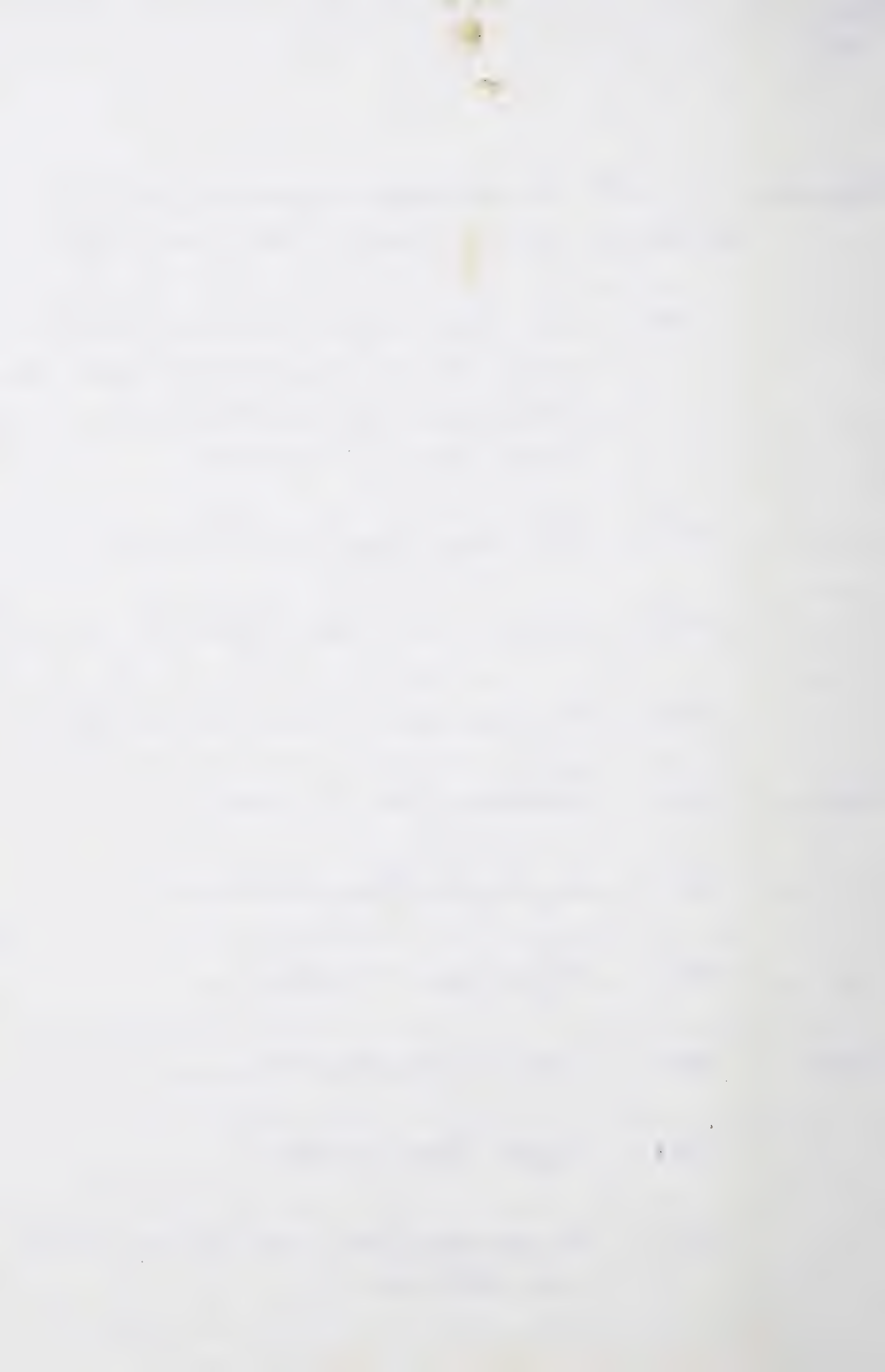
✓ 887 : very light fat; $t = 10 \times 6$ mm.

✓ 918 : light fat; $t = 12 \times 8$ mm

4 October ✓ 990 : moderate fat; $t = 3 \times 1$ mm

✓ 906 : light fat; $t = 9 \times 6$ mm

✓ 913 : ♀ moderate fat; ova $14, 7$ mm + 2(?) rupt. follicles.



Maclean
1968

4 October

✓ 811 952: fat moderate. $t = 7 \times 3$ mm.
heavy molt.

✓ 900: (nest #1) Heavy! fat. ova to 4 mm,
oviduct \pm regressed. b.p. present.

✓ 901: (nest #2) Heavy fat. ova to 3 mm;
oviduct partially regressed. b.p. present.
rupt. foll. still visible.

7 October

✓ 949: ♀ ad. ova to 3 mm; moderate fat.

✓ 945: \pm advanced heavy molt. $t = 5 \times 3$; moderate fat.

✓ 944: Heavy molt - early stages. feathers just
erupting from sheaths. $t = 6 \times 4$ mm; moderate fat.

8 October

✓ 948: Heavy molt. feathers 2-5 mm erupted from
sheaths. Moderate fat. $t = 6 \times 3$ mm.

✓ 869: light fat. $t = 14 \times 8$ mm. no molt. 2 Pedicular
larvae in mouth.

✓ 881: much fat w/ neck, but does not have
texture of c.f.o.. $t = 14 \times 8$ mm; heavy fat

9 October

✓ 939: Heavy molt - early stage - pin feathers.
 $t = 10 \times 6$ mm; fat moderate

Nest #1

$$\bar{x} = 73.2 \text{ gm.}$$

empty
can = 72.4

~~~~~

Egg #1 85.0 = 12.6 gm  
#2 85.6 = 13.2 gm  
#3 85.0 = 12.6 gm  
#4 85.1 = 12.7 gm

catalogue # 900

~~50.1~~ = Total  
49.1 = Total  
~~X = 12.2~~

1  
51.1 = Total

12.78 =  $\bar{x}$

Nest #2

$$\bar{x} = 67.6 \text{ gms.}$$

empty can = 72.4

Egg  
#1 = 84.4 = 12.0  
#2 = 84.3 = 11.9  
#3 = 84.9 = 12.5  
#4 = 84.3 = 12.1

catalogue # 901

48.5 = Total

$\bar{x}$  12.127





Maehren  
1968

10 October

✓  
811 908: lighter fat;  $t = 12 \times 7 \text{ mm}$ ; no molt.  
large c.f.d. Pedicia larva in mouth.

✓  
909: very lighter fat;  $t = 15 \times 9 \text{ mm}$ ; no molt.

11 October

✓  
860: lighter fat;  $t = 14 \times 8 \text{ mm}$ ; no molt.

✓  
865: lighter fat;  $t = 12 \times 7 \text{ mm}$ ; ~~not~~ replacing  
one retrix - otherwise no molt.

12 October

✓  
876: ♀. ova to 4 mm, oviduct not enlarged;  
moderate fat; no molt.

13 October

✓  
880:  $t = 10 \times 5 \text{ mm}$ ; ~~lighter~~ fat moderate.

14 October

✓  
885:  $t = 14 \times 8 \text{ mm}$ ; moderate fat.

✓  
886: ♀ - ova to 5 mm, oviduct enlarged. Heavy fat.

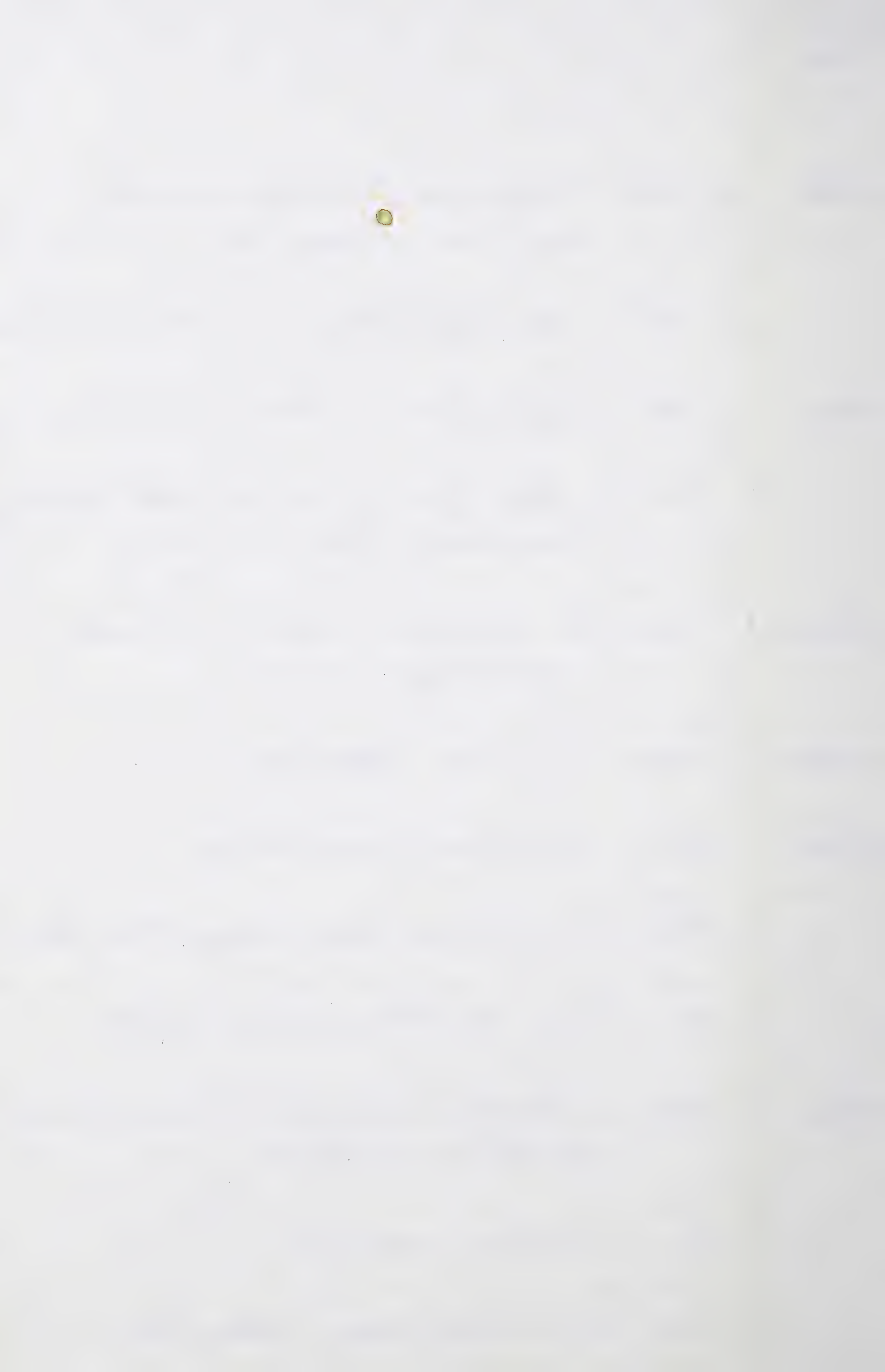
✓  
1000: ♂ imm. -  $t = 2 \times 1 \text{ mm}$ ; very heavy fat.

15 October

✓  
889:  $t = 12 \times 8 \text{ mm}$ ; moderate fat. Pedicia larvae  
in stomach and esophagus.

✓  
890:  $t = 11 \times 7 \text{ mm}$ ; moderate fat.

✓  
893: ♀ - ova to 5 mm, Heavy fat.





Maclean  
1968

16 October ✓  
SN 911:  $t = 15 \times 8$  mm; moderate fat.  
16 fresh Proicia larvae in mouth and  
upper esophagus.

✓  
912:  $t = 11 \times 5$  mm; light fat; heavy molt-  
early stages (pin feathers to ca 6 mm - none  
erupted from sheaths.)

17 October ✓  
905:  $t = 15 \times 9$  mm; very light fat

✓  
904:  $t = 12 \times 8$  mm; light fat;  
flukes (?) & cysts in abdominal cavity.

✓  
903:  $t = 12 \times 8$  mm; light fat. Group of  
molting feathers in scapular tract - probably  
replacement.

18 October ✓  
878:  $t = 13 \times 8$  mm; moderate fat

✓  
877: ♀ - ova to 7 mm; moderate + fat.

19 October ✓  
954: ♀ - Heavy molt - early stages (feathers  
ca 1-2 mm out of sheaths. total length to  
1 cm.). Ova < 1 mm; fat moderate.

20 October ✓  
870:  $t = 14 \times 8$  mm; moderate fat.

also 0.10 g. to 870-C for spleen fat.





Maclean  
1968

21 October • SN 897<sup>✓</sup> : lighter far;  $t = 13 \times 6 \text{ mm}$

22 October • 896<sup>✓</sup> : lighter far;  $t = 12 \times 7 \text{ mm}$

951<sup>✓</sup> : molt - body plumage is a mixture of old feathers and new feathers that are almost completely formed. Feathers of lower neck, breast, and upper back are out of sheaths; feathers of lower belly and back and under tail coverts are still (barely) in sheath. No new feathers on upper neck & head; some short brushes in face. Apparently this bird began to molt heavily, then stopped forming new feathers while carrying those that have already begun on to completion. One contour feather shows an open growth bar, suggesting nutritional deficiency after molt has begun.

Heavy far;  $t = 4 \times 2 \text{ mm}$ .

Far coming off w/ cervical skin lacks texture of c.f.o.

955<sup>✓</sup> : molt - heavy over entire body - early stage - pin feathers and short brushes. Heaviest on neck.

Heavy far; out to 1 mm.





Maclera  
1968

24 October • SN 907: ♂ -  $t = 14 \times 7$  mm; very light far  
no molt. took several photographs.

25 October • SN 941: ♂ -  $t = 11 \times 6$  mm; heavy far.  
molt just beginning - pin feathers just emerging  
from skin. took photographs to contrast  
w/ above.

892: ♀ - Heavy far. Ovary short - but  
remaining ova are  $> 4$  mm; oviducts and  
cloaca not greatly distended; no sign of  
b.p. Plumes at & blood-soaked.

891: ♀ - Heavy far; ova to 5 mm; oviducts  
coming up; no b.p. Adventitious molt -  
middle & rectrices - ca. 30 mm long - just  
erupting from sheaths; lateral rectrices  
severely worn.

26 October • 864:  $t = 14 \times 8$  mm; moderate far. Fresh  
tipula larva in upper esophagus.

950: ♀ - Heavy molt - brushes over  $\pm$   
entire body. Heavy far; ova  $< 1$  mm.

27 October • 956: ♀ - Heavy molt - well advanced -  
some contour feathers & functional.  
ova to 1 mm; heavy far.





Maclera  
1968

- 27 October • SN 947: Heavy molt - well advanced.  
 $t = 6 \times 3 \text{ mm}$ ; moderate far.
- 28 October • ♂ 946: Molt essentially complete - only small amount of feather growth still occurring.  
Heavy far;  $t = 5 \times 2 \text{ mm}$ .
- C. alpina 879? : ♀ - ova to 4 mm, light far. - no b.p. - oviduct not enlarged.
- 919 : ♀ - no body molt. Fully shelled and pigmented egg in lower part of oviduct.  
4 rupt. folls. v. light far. remaining ova to 6 (?) mm.
- 29 October • 868: ♂? gonads shr. light far.
- 863: ♂ -  $t = 10 \times 6 \text{ mm}$ ; light far.
- 861: ♀ - ova to 2 mm; light far.
- 862: ♀ - ova to 3 mm; light far
- 31 October • 883: ♀ - ova to 5 mm + 4 rupt. foll; light far.  
b.p. present. Oviduct still large.
- 882:  
♀ - ova to 9 mm + 4 (?) coll. foll.  
very light far. b.p. +; oviduct large.





Maclean  
1968

31 October • 884: ♀ - b.p. + . . . Ovary 9mm + 4(?) coll.  
follicles; v. light fat. Ovary still ± enlarged.  
note: this bird has a large notch in  
~~the~~ the carina, with atrophy of the  
prelateral muscles in that area.

• 866: ♀ - no b.p. ova to 4mm; ovary  
coming up. Heavy fat!

1 November • 867: ♀ - <sup>sure</sup>rupt. follicles!!! ova to 5mm,  
light fat. Ovary v. large - looks like  
most recent egg was within last 2 days.

2 November • 875?: ♀ no b.p. ova to 10mm; ovary  
large. light fat.

• 965: ♀ - b.p. refeathering. ova < 1mm,  
light fat. Molt heavy and advanced  
on wings - just getting underway  
body.

• 1003: ♀ - b.p. refeathering - early stage.  
v. l. fat - ova < 1mm. Molt as 965.

• 967: ♀ - no body fat, ova < 1mm.  
molt heavy: advanced - wing and tail,  
early on body.





Maehren  
1968

2 Nov. • SN 874? : ♂ - t = 14x9 mm, light + fat.  
no molt.

3 Nov. • 942 : ♀ - ova to 2 mm, light fat.  
heavy molt on wings - no body molt.

• 924 : ♀ - fresh ovum in oviduct - no  
shell - 21 mm. dia. ; next ovum 15 mm.  
(2 rupt. foll.); 3<sup>rd</sup> ovum 7 mm (this would  
be 4<sup>th</sup> of clutch.) no visible fat.

• 919 : ♀ - ova 17, 10, 5, 5 ; no rupt. foll.  
no visible fat ; wing molt.  
Dried 2 largest ova separately. (1.595g.)

• 957 : ♀ - trapline, but appears to have died ±  
suddenly. light fat. ova < 1 mm.  
active b.p. [Stomach ± full.]

4 Nov. • 923 : ♂ - t = 7x4 mm; v. light fat.  
[stomach empty.]

↳ C.b. 894 : ♂ - t = 10x6 mm; mod. fat ; no b.p.

↳ 898 : ♀ - light fat. ova to 5 mm + 4 rupt. folls.

• C.c. 920 : ♀ - ova to 3 mm, oviduct small;  
fat moderate - [Stomach empty]





Maclean  
1968

[stomach nearly empty]

4 November • SM 916: ♀ - ova 12, 5 + 2 rupt. follics.  
v. light fat. Oviduct enlarged.

5 November • C.m. 940: ♀ - light fat. ova ? - but small.  
b.p. + ; no molt.

✓ C.b. 899: (hand-killed) ♂ -  $t = 8 \times 4 \text{ mm}$ ; mod. fat

✓ 936: Heavy body molt. ♀ - ova to 1 mm,  
heavy fat.

21 Nov. ✓ 997: [note - this bird was mistakenly  
left in refrigerator for 2 weeks. It is very ana-  
smells a bit musty, but not enough to  
suggest serious deterioration.]  
♂ imm;  $t = 3 \text{ mm}$ , fat light

✓ 968: as above - thawed 2 weeks,  
but condition is not too bad.  
v. heavy molt. ♂ - light fat,  $t = 3 \text{ mm}$ .

✓ 895: ♂ -  $t = 10 \text{ mm}$ , light fat.  
as 997 and 968 - do.

22 Nov. ✓ 976: Still down on nape, rump. feathers  
actively growing. very light fat.  
♀ - ? - gonads minute.



Maclean  
1968

22 Nov. ✓ 28-VIII: 62.9g. - 1004  
Active feather growth post-juvenile  
molt. v. light fat - ♀ - ova minute.

24 Nov. ✓ 991: Heavy fat;  $t = 3\text{mm}$ . no active molt.

✓ 998: (trapline) Heavy fat. ova minute.

25 Nov. ✓ 983: no-very light fat.  $t = 2\text{mm}$

✓ 982: ~~light~~ fat moderate.  $t = 2\text{mm}$ .

✓ 917: trapline. No body fat; presumably  
starved to death. ♂:  $t = 11 \times 7\text{mm}$ .

✓ 992: moderate fat; ova minute.

26 Nov. ✓ 995: ♀ - moderate fat; ova minute.

✓ 888: ♀ - ova to  $3\text{mm}$  + 4 recently rupt. follics.  
b.p. forming. Moderate fat.

✓ 935: Heavy body molt. ♀? - if so, ova  $> 1\text{mm}$ .  
fat moderate.

27 Nov. • 1005: Imm ♀? - if so, ova minute. light fat.

3 Dec. • 1006: v. Heavy fat - ♀? ova  $< 1\text{mm}$





Macheco

1968

3 Dec. SM 934 : ♂ - t = 5 mm, Heavy far, Heavy mob.

5 Dec. 933 : ♀ - over to 1 mm, Heavy - far, Heavy mob.

1007 : ? - goes minute. No far.



















